

2185/2825
FIGURE 1924

PEKLREWLETAGPWGQAAWQDCQGVQGAAGQAAVSAAAALRSHPPVPLPPCGASWRHLRAHSPGEGAALPSAATRF
CGPCAAGASCGAAAHHAVGGAGTAGARPARLHLTHAEVTGAAPAAGHLPRPSRPAVARLCTPPAG

2186/2825
FIGURE 1925

ATGCGCGATCTCCCGGAGCATGCGCAGCAGCGGGCGCCGACGCGGGGCGGTGCCTGGTGACCGCGCGCGCTCCCGG
AAGTGTGCCGGCGTTCGCGCGAAGGTTTCAGCAGGGAGCCGTGGGCCGGGCGCGCGGTTCCCGGCACGTGTCTCGGC
ACGTGGCAGCGCGCCTGGCCCTGGGCTTGGAGGCGCCGGCGCCCTGGATCCGCCGGCCGTGGTTCGCCGAGTTCGGT
GTCGTCCCTTGACCATCGCCGACGCGTTCATTGCAGCCGGCGAGAGCTCAGCTCCGACCCCGCCGCGCCCCGCGCT
TCCCAGGAGGTTTCATCTGCTCCTTCCCTGACTGCAGCGCCAATTACAGCAAAGCCTGGAAGCTTGACGCGCACCT
GTGCAAGCACACGGGGGAGAGACCATTGTTTGTGACTATGAAGGGTGTGGCAAGGCCTTCATCAGGGACTACCA
TCTGAGCCGCCACATTCTGACTCACACAGGAGAAAAGCCGTTTGTGTCAGCCAATGGCTGTGATCAAAAATT
CAACACAAAATCAAACCTGAAGAAACATTTTGAACGCAAACATGAAAATCAACAAAAACAATATATATGCAGTTT
TGAAGACTGTAAGAAGACCTTTAAGAAACATCAGCAGCTGAAAATCCATCAGTGCCAGAATACCAATGAACCTCT
ATTCAAGTGTACCCAGGAAGGATGTGGGAAACACTTTGCATCACCCAGCAAGCTGAAACGACATGCCAAGGCCCA
CGAGGGCTATGTATGTCAAAAAGGATGTTCCCTTGTGGCAAAAACATGGACGGAACCTTCTGAAACATGTGAGAGA
AACCATAAAGAGGAAATACTATGTGAAGTATGCCGGAAAACATTTAAACGCAAAGATTACCTTAAGCAACACAT
GAAAACTCATGCCCCAGAAAGGGATGTATGTGCTGTCCAAGAGAAGGCTGTGGAAGAACCTATACAACTGTGTT
TAATCTCCAAAGCCATATCCTCTCCTTCCATGAGGAAAAGCCGCCCTTTTGTGTGTGAACATGCTGGCTGTGGCAA
AACATTTGCAATGAAACAAAGTCTCACTAGGCATGCTGTTGTACATGATCCTGACAAGAAGAAAATGAAGCTCAA
AGTCAAAAAATCTCGTGA AAAACGGGAGTTTGGCCTCTCATCTCAGTGGATATATCCTCCCAAAAGGAAAACAAGG
GCAAGGCTTATCTTTGTGTCAAAACGGAGAGTCACCCAACTGTGTGGAAGACAAGATGCTCTCGACAGTTGCAGT
ACTTACCCTTGGCTAAGAACTGCACTGCTTTGTTTAAAGGACTGCAGACCAAGGAGTCGAGCTTTCTCTCAGAGC
ATGCTTTTCTTTATTAAATTACTGATGCAG

2187/2825
FIGURE 1926

MRSSGADAGRCLVTARAPGSVPASREGSAGSRGPGARFPARVSARGSAPGPGLGGAGALDPPAVVAESVSSLTIA
DAFIAAGESSAPTPPRPALPRRFICSFPDCSANYSKAWKLD AHLCKHTGERPFVCDYEGCGKAFIRDYHLSRHIL
THTGEKPFVCAANGCDQKFNTKSNLKKHFERKHENQQKQYICSFEDCKKTFKKHQQLKIHQCQNTNEPLFKCTQE
GCGKHFASPSKLKRHAKAHEGYVCQKGCSFVAKTWTELLKHVRETHKEEILCEVCRKTFKRKDYLKQHMKTHAPE
RDVCRCPREGCGRTYTTVFNLQSHILSFHEESRPFVCEHAGCGKTFAMKQSLTRHAVVHDPDKKKMKLVKKSRE
KREFGLSSQWIYPPKRKQGQGLSLCQNGESPNCVEDKMLSTVAVLTIG

2188/2825
FIGURE 1927

GCCACAGTGCTCCGGATCCTCCAATCTTCGCTCCTCCAATCTCCGCTCCTCCACCCAGTTCAGGAACCCGCGACC
GCTCGCAGCGCTCTCTTGACCACTATGAGCCTCCTGTCCAGCCGCGCGGCCCGTGTCCCCGGTCCCTTCGAGCTCC
TTGTGCGCGCTGTTGGTGCTGCTGCTGCTGCTGACGCAGCCAGGGCCCATCGCCAGCGCTGGTCCCTGCCGCTGCT
GTGTTGAGAGAGCTGCGTTGCGTTTGTGTTTACAGACCACGCAAGGAGTTCATCCCAAAATGATCAGTAATCTGCAA
GTGTTGCGCCATAGGCCACAGTGCTCCAAGGTGGAAGTGGTAGCCTCCCTGAAGAACGGGAAGGAAATTTGTCTT
GATCCAGAAGCCCCCTTTCTAAAGAAAGTCATCCAGAAAATTTTGGACGGTGGAACAAGGAAAACTGATTAAGA
GAAATGAGCACGCATGGAAAAGTTTCCAGTCTTCAGCAGAGAAGTTTTCTGGAGGTCTCTGAACCCAGGGAAGA
CAAGAAGGAAAGATTTTGTGTTGTTTGTGTTTATTTGTTTTTCCAGTAGTTAGCTTTCTTCCTGGATTCCTCACTT
TGAAGAGTGTGAGGAAAACCTATGTTTGCCGCTTAAGCTTTTCAGCTCAGCTAATGAAGTGTGTTAGCATAGTACCT
CTGCTATTTGCTGTTATTTTATCTGCTATGCTATTGAAGTTTTGGCAATTGACTATAGTGTGAGCCAGGAATCAC
TGGCTGTTAATCTTTCAAAGTGTCTTGAATTGTAGGTGACTATTATATTTCCAAGAAATATTCCTTAAGATATTA
ACTGAGAAGGCTGTGGATTTAATGTGGAAATGATGTTTCATAAGAATTCTGTTGATGGAAATACACTGTTATCTT
CACTTTTATAAGAAATAGGAAATATTTTAATGTTTCTTGGGGAATATGTTAGAGAATTTCTTACTCTTGATTGT
GGGATACTATTTAATTATTTCACTTTAGAAAAGCTGAGTGTTTCACACCTTATCTATGTAGAATATATTTCCCTTAT
TCAGAAATTTCTAAAAGTTTAAGTTCTATGAGGGCTAATATCTTATCTTCCTATAATTTTAGACATTCTTTATCTT
TTTAGTATGGCAAACCTGCCATCATTTACTTTTAAACTTTGATTTTATATGCTATTTATTAAGTATTTTATTAGGA
GTACCATAATTCTGGTAGCTAAATATATATTTTAGATAGATGAAGAAGCTAGAAAACAGGCAAATTCCTGACTGC
TAGTTTATATAGAAATGTATTCTTTTAGTTTTTAAAGTAAAGGCAAACCTTAACAATGACTTGTACTCTGAAAGTT
TTGGAAACGTATTCAAACAATTTGAATATAAATTTATCATTTAGTTATAAAAAATATATAGCGACATCCTCGAGGC
CCTAGCATTTCTCCTTGGATAGGGGACCAGAGAGAGCTTGGAATGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

2189/2825
FIGURE 1928

MSLLSSRAARVPGPSSSLCALLVLLLLLTQPGPIASAGPAAAVLRELRCVCLQTTQGVHPKMISNLQVFAIGPQC
SKVEVVASLKNGKEICLDPEAPFLKKVIQKILDGGNKEN

2190/2825
FIGURE 1929

CGCCTCTTCACGGCACTGGGATCCGCATCTGCCTGGGATCATCAAGCCCTAGAAGCTGGGTTTCTTTAAATTAGG
GCTGCCGTTTTCTGTTTCTCCCTGGGCTGCGGAAAGCCAGAAGATTTTATCTAGCTTATACAAGGCTGCTGGTGT
TCCCTCTTTTTTCCACGAGGGTGTTTTTGGCTGCAATTGCATGAAATCCCAATGGTGTAGACCAGTGGCGATGG
ATCTAGGAGTTTACCAACTGAGACATTTTTCAATTTCTTTCTTGTCATCCTTGCTGGGGACTGAAAACGCTTCTG
TGAGACTTGATAATAGCTCCTCTGGTGCAAGTGTGGTAGCTATTGACAACAAAATCGAGCAAGCTATGGATCTAG
TGAAAAGCCATTTGATGTATGCGGTCAGAGAAGAAGTGGAGGTCTCAAAGAGCAAATCAAAGAATAATAGAGA
AAAATTTCCAGCTGGAGCAGGAGAACAATCTGCTGAAGACACTGGCCAGTCTTGAGCAGCTTGCCCAGTTTCAGG
CCCAGCTGCAGACTGGCTCCCCCCTGCCACCACCCAGCCACAGGGCACCACACAGCCCCCGCCAGCCAGCAT
CGCAGGGCTCAGGACCAACCGCATAGCTGCCTATGCCCCGCGAGAACTGGCTGCTGCGTGTGAACGAACAGACG
GAGAAGATGTGCTAGGGAGAATCTGCCTCCACAGTCACCCATTTTATTGCTCGCTGCGAAAGAGACGTGAGACTG
ACATATGCCATTATCTCTTTTCCAGTATTAAACACTCATATGCTTATGGCTTGGAGAAATTTCTTAGTTGGGTGA
ATTAAAGGTTAATCCGAGAATTAGCATGGATATACCGGGACCTCATGCAGCTTGGCAGATATCTGAGAAATGGTT
TAATTCATGCTCAGGAGCTGTGTGCCTTTCCATCCCTTCCGGCTCCCTACCCCTCACTTCCAAGGGTTCTCTCTC
CTGCTTGCCTTAGTGTCTACATGGGGTTGTGAAGCGATGGAGCTCCTCACTGGACTCGCCTCTCTCCTCTCCT
CCCCCAGGAGGAACCTTGAAAGGAGGGTAAAAAGACTAAAATGAGGGGGAACAGAGTTCACTGTACAAATTTGAC
AACTGTCACCAAAATTCATAAAAAACAATAGTACTGTGCCTCTTTCTTCTCAAACAATGGATGACACAAAATAT
GAGAGTGACAAAATGGTGACAGGTAGCTGGGACCTAGGCTATCTTACCATGAAGGTTGTTTTGCTTATTGTATAT
TTGTGTATGTAGTGTAATTTTTGTACAATAGAGGACTGTAATCTACTATTTAGGTTGTACAGATTGAAATTTAG
TTGTTTCATTGGCTGTCTGAGGAGGTGTGGACTTTTATATATAGATCTACATAAAAACTGCTACATGACAAAAAC
CACACCTAAACCCCTTTTAAGAATTTGGCACAGTTACTCACTTTGTGTAATCTGAAATCTAGCTGCTGAATACGC
TGAAGTAAATCCTTGTTCACTGAAGTCTTTCAATTGAGCTGGTTGAATACTTTGAAAAATGCTCAGTTCTAACTA
ATGAAATGGATTTCCAGTAGGGGTTTCTGCATATCACCTGTATAGTAGTTATATGCATATGTTTCTGTGCATGT
TCTCTACACAATTGTAAGGTGTCAGTGTATTTAACTGTTGCACTTGTCAACTTTCAATAAAGCATATAAATGTTG

2191/2825
FIGURE 1930

MKSQWCRPVAMDLGVYQLRHFSISFLSSLLGTENASVRLDNSSSGASVVAIDNKIEQAMD LVKSHLMYAVREEVE
VLKEQIKELIEKNSQLEQENLLKTLASPEQLAQFQAQLQTGSPATTQPQGTTPPAQPASQGS GPTA

2192/2825
FIGURE 1931

GCTCATTACTTAATCTCAGGCTCCCCACTCAAAATTTTTCTGTTCAGGTGTATGATTTAAAGGGGGAGGCCTCAA
AATACTTGCAGCTTGTGTCCTGTCTGGCTTTAGAACTTCTGGTGTGTTGGTGCATTTTAACTTCAGCGCTTGCACT
TTTTCTGTGTCCTGCCTAATCTGTCTCTACCTGGGATGTCTTGCTCTTCTAAAGAGTTCTGGCCATCCCTTG
ATTTACAAATGTGATGTTGATTTGTCTAGCCCTGTATTACAGTTACTCCTATTCTGTATCCACCCACGATGCTG
TCCAGTAGATTTTTAGCCTTTGGGTTAGAAATTGTTTTTTGTTTACCATTAAATATCCATTTGAGGGCTGGGTAGC
ACTGTGATTGTGATTGAGCAATTGCATGGGCTTTTTCTCTTCTCAGAACACTTCCTGGGTCTGATTGGTGGCCC
AGGGAGCTGTCAGAGAAGAGCAGAGCAAATGGCCTTCACCTTGTAGATGAGATGGCAGGAGGGTGGATTGTTGGT
CTCAGTCAGTGGTGGGACAGACCAGAGCTCCGAACACTTCAGTTTTAAAACTAGTTGTGAGTTTCCAATTCTGTT
AATGCTTTTTTTGGTCCTTGTTTCTGCTAAATGAATACATCCCTCCCCTTGGAACCTAATATCAATAAATAACA
AGCACAGAAATATGCAAAGGACCAGGTCTACTTGAAGAATTTGTGAGGATTAAATGGTTTATGAGTAGAGGAGG
GTCAGTCAGTAAGTATTGGCTACCTCATGTGTGTCCCATTACTAACTTGGTTAGACTTATCTATTTTTTGTGTAG
TCTTCCTGTCATAAAAATTCTGTGTAAGGACCCCATGCTAGTATCAGTGAAGATTGTGAATCCAGGTGTGTCTGA
CTCTACAATAGTTCTTCACAAGCATTATATTTCACTGTGTAGTGATACTTCATTTTGAAGTTGGGAAAAGCGTC
TTTTTCACTTTAGTACAGATGGGTATAAAAGTTACTTAGGACACTAGAAAACAGTTCATTAAAAGTAAAACAAAG
CCTGGTGCTTGGGCCCCAGGAATTCAACTGTTTTCCAGTGTAAATCTGAATAGCTTGGTCTCTGCTCATTGCCA
GGACTGGGAGGAGTTGGGGTCCCAGGTCCCATTCTACATCCCAATTCAGTGATACTGGGATCTTAATAACCTA
CCTGTGAGGTGAAGTTGGAAAAGGCATAGGCAAGGATAGTTGTCCTGAGAGTTTTACACTGTGAGAAAATACTG
GCAGCTTTGATTTTAAGATGTGAATAGATGATCGTGGTTCATGCCTATACTCCCTATACTCCCAG

2193/2825
FIGURE 1932

MSRGGSVSKYWLP HVCPITNLVRLIYFLCSLPVIKILCKDPMLVSVKIVNPGVSDSTIVLHKHYISLCSDTSF

2194/2825
FIGURE 1933A

GAGATATCCTTACCTTACTCAACAGCACCAACAAGGATTGGTGGAAAGGTGGAAGTGAACGATCGTCAGGGTTTTG
TGCCCGCTGCGTACGTGAAGAAATTGGACCCCGCCAGTCAGCCTCCCGGGAGAATCTCCTGGAGGAGCAAGGCA
GCATAGCACTGCGGCAGGAGCAGATTGACAATCAATATCATTCTCTGCTGGAAGTGGGTGAGAAGCGTAAAGGCA
TGTTGGAGAAGAGTTGCAAGAAGTTTATGTTGTTCCGTGAAGCGAATGAACTACAGCAATGGATCAATGAGAAGG
AAGCCGCTCTGACAAGTGAGGAGGTGGGAGCAGACTTGGAGCAGGTTGAGGTGCTCCAGAAGAAGTTTGATGACT
TCCAGAAGGACCTGAAGGCCAATGAGTCACGTTGAAGGACATTAACAAGGTAGCTGAAGACCTGGAGTCTGAAG
GTCTTATGGCAGAGGAGGTGCAGGCTGTGCAACAACAGGAAGTGTATGGCATGATGCCCAGGGATGAAACTGATT
CCAAGACAGCCTCCCGTGGAAGTCTGCTCGTCTGATGGTTCACACCGTGGCCACCTTTAATTCCATCAAGGAGC
TGAATGAGCGCTGGCGGTCCCTACAGCAGCTGGCCGAGGAACGGAGCCAGCTCTTGGGCAGCGCCCATGAAGTAC
AGAGGTTCCACAGAGATGCTGATGAAACCAAAGAATGGATTGAAGAGAAGAATCAAGCTCTAAACACAGACAATT
ATGGACATGATCTCGCCAGTGTCCAGGCCCTGCAACGCAAGCATGAGGGCTTCGAGAGGGACCTTGCGGCTCTCG
GTGACAAGGTAAACTCCCTTGGTGAAACAGCAGAGCGCTGATCCAGTCCCATCCCGAGTCAGCAGAAGACCTGC
AGGAAAAGTGCACAGAGTTAAACCAGGCCTGGAGCAGCCTGGGGAAACGTGCAGATCAGCGCAAGGCAAAGTTGG
GTGACTCCCACGACCTGCAGCGCTTCTTAGCGATTTCCGGGACCTCATGTCTTGGATCAATGGAATACGGGGGT
TGGTGTCTCAGATGAGCTAGCCAAGGATGTACCCGAGCTGAGGCATTGCTGGAGCGACACCAGGGACACCGGA
CAGAAATCGATGCCAGGGCTGGCACTTTCCAGGCATTTGAGCAGTTTGACAGCAGCTGTTGGCTCACGGACACT
ATGCCAGCCCTGAGATCAAGCAGAACTTGATATTCTTGACCAGGAGCGTGCAGACCTGGAGAAGGCCTGGGTTT
AGCGCAGGATGATGCTGGATCAGTGCCTTGAAGTGCAGCTGTTCCATCGGACTGTGAGCAAGCTGAGAAGTGG
TGGCTGCCCGGGAGGCCTTCTTGAATACCGAAGACAAAGGAGACTCACTGGACAGCGTAGAGGCTCTGATCAAAA
AACATGAAGACTTTTGACAAAGCGATTAAACGTCCAGGAAGAGAAGATTGCTGCTCTGCAGGCCTTTGCCGACCAGC
TCATCGCTGCCGGCCATTATGCCAAGGGAGACATTTCTAGCCGGCGCAATGAGGTCTTGGACAGGTGGCGACGTC
TGAAAGCCCAGATGATTGAGAAAAGGTCAAAGCTAGGAGAATCTCAAACCCTCCAACAGTTTCAGCCGGGATGTGG
ATGAGATTGAGGCTTGGATCAGTGAAAAATTGCAAAACAGCGAGTGATGAGTCGTACAAGGATCCCAACACATCC
AGAGCAAGCACCAGAAGCACCAGGCTTTTGAAGCAGAGCTGCATGCCAACGCTGACCGGATCCGTGGGGTTATCG
ACATGGGCAACTCCCTCATTGAACGTGGAGCCTGTGCCGGCAGTGAGGATGCTGTCAAGGCCCGCCTGGCTGCCT
TAGCTGACCAGTGGCAGTTCTTGGTGCAAAAGTCAGCGGAAAAGAGCCAGAAACTGAAAGAAGCCAACAAGCAGC
AGAACTTCAACACAGGGATCAAGGACTTTGACTTCTGGCTGTCTGAGGTGGAGGCCCTGTGGCATCCGAAGATT
ATGGCAAAGACCTGGCTTCTGTGAACAACCTGCTGAAAAAGCATCAACTGCTGGAAGCAGATATATCTGCCCATG
AGGATCGCCTGAAGGACCTGAACAGCCAGGCAGACAGCCTGATGACCAGCAGTGCCTTCGACACCTCCCAAGTAA
AGGACAAGAGGGACACCATCAACGGGCGCTTCCAGAAGATCAAGAGCATGGCGGCCCTCCCGGCGAGCCAAGCTGA
ATGAATCCCATCGCCTGCACCAGTTCTTCCGGGACATGGATGACGAGGAGTCTGGATCAAGGAGAAGAAGCTGC
TGGTGGGCTCAGAGGACTACGGCCGGGACCTAACTGGCGTGCAGAACCTGAGGAAGAAGCACAAGCGGCTGGAAG
CAGAACTGGCTGCGCATGAGCCGGCTATTGAGGGTGTCTGGACACTGGCAAGAAGCTGTCCGATGACAACACCA
TCGGGAAAAGAGGAGATCCAGCAGCGGCTGGCGCAGTTTGTGGAGCACTGGAAAGAGCTGAAGCAGCTGGCAGCTG
CCCGGGGTCAGCGGCTGGAAGAGTCTTGGAAATATCAGCAGTTTGTAGCCAATGTGGAAGAGGAAGAAGCCTGGA
TCAATGAGAAAAATGACCCCTGGTGGCCAGCGAAGATTATGGCGACACTCTTGCCGCCATCCAGGGCTTACTGAAGA
AACATGAAGCTTTTGAGACAGACTTCACCGTCCACAAGGATCGCGTGAATGATGTCTGCACCAATGGACAAGACC
TCATTAAGAAGAACAATCACCATGAGGAGAACATCTCTTCAAAGATGAAGGGCCTGAACGGGAAAGTGTGAGACC
TGGAGAAAGCTGCAGCCCAGAGAAAGGCGAAGCTGGATGAGAACTCGGCCTTCTTTCAGTTCAACTGGAAGGCGG
ACGTGGTGGAGTCTTGGATCGGTGAAAAGGAGAACAGCTTGAAGACAGATGATTATGGCCGAGACCTGTCTTCTG
TGCAGACGCTCCTCACCAAACAGGAACTTTTGACGCTGGGCTGCAGGCCTTCCAGCAGGAAGGCATTGCCAACA
TCACTGCCCTCAAAGATCAGCTTCTCGCCGCCAAACACGTTTCAGTCCAAGGCCATCGAGGCCCCGGCACGCCTCCC
TCATGAAGAGGTGGAGCCAGCTTCTGGCCAACCTCAGCCGCCCCGAAGAAGAAGCTTCTGGAGGCTCAGAGTCACT
TCCGCAAGGTGGAGGACCTTCTCCTGACCTTCGCCAAAAAGGCTTCTGCCTTCAACAGCTGGTTTTGAAATGCAG
AGGAGGACTTAACAGACCCCGTGCCTGCAACTCCTTGAAGAAATCAAAGCTTTGCGCGAGGCCACGACGCCT
TCCGCTCCTCCCTCAGCTCTGCCAGGCTGACTTCAACCAGCTGGCCGAGCTGGACCGCCAGATCAAGAGCTTCC
GCGTAGCCTCCAACCCCTACACCTGGTTTACCATGGAGGCCCTGGAGGAGACCTGGAGGAACCTACAGAAAATCA
TCAAGGAGAGGGAGCTGGAGCTGCAGAAGGAGCAGCGCGGCAGGAGGAGAACGACAAGCTGCGCCAGGAGTTTG

2195/2825
FIGURE 1933B

CCCAGCACGCCAACGCCTTCCACCAGTGGATCCAAGAGACCAGGACATACCTCCTCGATGGGTCTGTATGGTGG
AAGAGTCGGGGACCCTCGAATCCCAGCTTGAAGCTACCAAACGCAAGCACCAGGAAATCCGAGCCATGAGAAGTC
AGCTCAAAAAGATCGAGGACCTGGGGGCCGCCATGGAGGAGGCCCTCATCCTGGACAACAAGTACACGGAGCACA
GCACCGTGGGCCTCGCCCAGCAGTGGGACCAGCTGGACCAGCTGGGCATGCGCATGCAGCACAACCTGGAGCAGC
AGATCCAGGCCAGGAACACAACAGGTGTGACTGAGGAGGCCCTCAAAGAATTCAGCATGATGTTTAAACACTTTG
ACTAGGACAAGTCTGGCAGGCTGAACCATCAGGAGTTCAAATCTTGCCTGCGCTCCCTGGGCTATGACCTGCCCA
TGGTGGAGGAAGGGGAACCTGACCCTGAGTTCGAGGCAATCCTGGACACGGTGGATCCGAACAGAGATGGCCATG
TCTCCTTGCAAGAATACATGGCTTTTCATGATCAGCCGCGAAACTGAGAACGTCAAGTCCAGCGAGGAGATTGAGA
GCGCCTTCCGGGCCCTCTGCTCAGAGGGAAAGCCTTACGTGACCAAGGAGGAGCTCTACCAGAACCTGACCCGGG
AACAAGCCGACTACTGCGTCTCCACATGAAGCCCTACGTGGACGGCAAGGGCCGCGAGCTCCCCACCGCGTTCG
ACTACGTGGAGTTCACCCGCTCGCTTTTCGTGAACTGAGCCACTCCCTGGGTACCCACCCCTCGCTGCTTGCCC
TGCGTCGCCTTGCTGCATGTCCGCTCCTCTGTGTGCTCTCACTTTCCACTGTAACCTTAAGCCTGCTTAGCTTGG
AATAAGACTTAGGAGAATATGGTGCTTCACTAACCCGCTTCCGGTCCAGTCACAATCATCATGTCACTGTGGGGA
CCCAGATCTGTGTCTTGAAGCAGCTGCCCTCATTCCGACTTCAGAAAATCGAAGCAGCTGGCTCCTCCCCTTGTT
CTCTCTCCCACCCTCCCCAAATCTGTTTTTCATGTAAAAGACAAATAAATGATGACTTCCCCCAAAAAAAAAAAAA
AAAAAAAAC

2196/2825
FIGURE 1934A

CTCACACATAGACACGCACACACACCCCTTTCTCGCACACACACACACACACACACACTCTCACACATTCTCAC
ATGCTAGACCCTTCTAAGCAGCTTGTCCGTTTTTACACATGTATCTGAACTCTCCTGCATCACTCTTGGCCATTT
TCTCGCATTGCGATTGCTTTTGCCGTTTTTTATTTAGATCAGTACTTGATTTTCATTTTTCATTTTCCAGTCTACTTT
GGGGTTCTCGCAGTGGATAATTTAGCCAAAAATGTTTTCTTGTGGAGACATTAGCTGACAAATCCCACCACAGAC
TGGCTTGACGTCTCTCCAGGGAGACCTAAACCTGGCTCCCTCCCACCGCAGTTCTTAATATTGTGGATAAGAG
ATCCATCTTTCTCATTCTGGATACCTTACTTAGTGCTCATGGAAGAAGGGGTGCCCTGCCAGCCCCAGCTGCTAA
GCTCACACCTCCTGTCAAAAAGTCCCAGGACATGCACGACGAGAGGAGCAAGCTGGTGAATGAGTATGCGTGTCG
AGTGCTGGAACCTCTGGGGATGGGGCATCGTCTGTTTGTGCCTCGGCTTCTGGCGACCTCAAAGGAAGACCTTCT
GCAGGCTGATTTTGAAGGTGCTTTAAAGTTCTTTAGAGTTCAGCTTCCAAAGAGATACAGGGCAGAGGAAAATGC
AAGAAGACTGATGGAGCAGGCTTGCAATATTAAAGTACCAACCAAGAAGCTGAAGAAATATGAGAAAGAATATCA
GACAATGCGAGAGAGTCAGCTGCAACAGGAAGACCCAATGGATAGATACAAGAGGGAGAACC GAAGATTACAGGA
GGCCAGCATGAGGTTGGAACAAGAGAATGATGACCTTGCCCATGAACTAGTAACAAGCAAAATTGCTCTACGGAA
TGACTTGATCAGGCAGAAGACAAGGCAGATGTGTTGAATAAAGAGCTCCTTTTGACCAAACAGAGGCTGGTGGA
GACTGAAGAGGAGAAGAGGAAGCAAGAGGAAGAGACTGCCAGCTAAAAGAAGTCTTCAGGAAACAGCTAGAGAA
GGCAGAATATGAAATAAAGAAGACTACAGCTATCATTGCTGAGTATAAACAGATCTGTTTCGCAGTTGAGTACCAG
GCTGGAGAAACAGCAAGCAGCCAGCAAGGAGGAGCTGGAAGTGGTAAAGGGTAAGATGATGGCATGCAAACACTG
CAGTGACATTTTCAGCAAGGAGGGTGCTTTGAACTAGCAGCCACAGGCAGAGAGGACCAGGGAATTGAAACAGA
TGATGAGAAGGACTCACTTAAGAAGCAGCTGAGAGAGATGGAAGTGGAACTGGCACAACCAAACTGCAGTTGGT
GGAGGCCAAGTGTAATAATTCAGGAACCTGAACATCAGAGAGGAGCCCTTATGAATGAAATCCAAGCTGCGAAAAA
CTCTTGGTTTAGCAAAACCCTGAACCTATCAAAACGGCCACGGGCACCCAGCCATTGCAGCCAGCACC GGTCAC
CCAGCCACCCAAGGAGAGCACATAGCTTCCAGCCTTACCCAAGCACAAGAGCACAATGTTCAAACCAATGGAAATC
TGGGAGGATTCTTCTGTTGTCCCTTTGAAGGAAAGTCAAGGAGGCCAGAAAAACAAGCCAGAATTTTTCAGTAGC
TCTCACTCTTTCTTGTATGACACTTTTCAAAGGGATGCTATTTAACTGACCTGTTCTATGTTGAATACCTATTT
TCCAGCTTCTGGAAGGCCATGTTTCAGATCCATCATAGTATTACACATTATTTTGTGCTGATGTTTAGTTGGA
AATAAGTAATTCAGAACTAAATGCTTTTTTATTTAGAAATTATTCATAATTATTTTTATCTTACATAAAAAATGGAG
ACATCTGTTATTCCAAGGTTGAAGTGATAAGAAGATCTTGTGTCAGGAAAAAAAAAATTGAAACCTAAACATC
TTAAGTTTTTCAGGATTTATTCAGATAAAGCACACTGTGGGGCCAGGCATGACCCTCTCAGGTTTCTCCTGAGC
CTGATTCCCAGGGAAGTGTTAATCCTGTCCAAAGGAAAGAACCAATCAGCGATCATTGGTTTACTTTTCAATTTCT
GTTGCGGTACATCTGGAATGAAGTGCCAGGAATAGACGGGCTGTTTCAGATTATACGCTAGGTAAAGGAAGTGA
ATTTTAATAAGTGAGGTCAGGATCATTGCGGTGTTGTTATTCTAACAGATCCTTTTAAGAATGCCACATAGGAC
TTGTGAGTTCCTAAGTACACCAAAGTATGGACACAGATGTGACTTCTGGCAATTATAAAGTTAAAGGTGGATATT
GCACCTTACAGACTTAGGGAGCCTTTACCAGAGACGCCTAAAAGCCCCAGGTTTCAGCCATTGTGCTGAATAGAG
TGGAATATAGAACCAGGGACAGAGTATTTCATTTAACGTTGATATATACTTGCTAAGGAAACACTAACAATACTG
TAACCTTTGTTAAAGGACATAGTATTGAAATGGGAAATAGAGGTCAGGCTCACATCATCTTAGTTTAATGCTGGGC
AACTTTTTTCTGATTTCTGTAGTTCCCTGAAAAATGTGTCCTTCGTACCCATAAAGAGATACAAATGCATTTGTAA
CATTTTTGATTGAATATAAAACCTTTACAGAAATACTTATCTCATGGAAAGGTAAAGCTATTGTTTAAAAATTAG
TGGAAATATTTTTTCAATTATATTTAACATGCCTATAAAAAATAGTCCTTGCCAGGAAATTATTTGATAAGAGCAAA
ACTATTTTTATTTTATAAACTATTTTGGAGGCCTCTGATCCTTTCAAACCAACCAAACTACTATTAGATATGTAC
AATAACATTTGTTGATATTAATCATTGGCCTCATGTTGAACATATTATTTGCAAAGAATCTTAAACTCTGTAGT
GCCAGAATGATTCTCATCTGTGCCATATTTTGCAATTAAAAGTAACACACCCTTAGAAGAATCAAATAAGAGCCA
TCTACATCCCAGGAGGATGCACCAAGTTGCTCACAGTGGATCTTTTCTCTAAAATGATCTTTTATGTTCTAAAA
AGTGAAATCCCCTTTATCTGTGTTTATATTCTCTACAGCCATAAACTGATGTGATTGTTATGTTATACTCATC
AGATAATACTTTTCTTACATAAAATCTTTCATTGTTGTTCTGACATCTTTCATTACAAAATTTATTTTCTTAACAA
AAAGGAACATAACCCAGCATTCCAAGTGCTGTGTTGGCTTTAACATTCTCTACATGGTGGTCTAGATAAGCTAA
TTTTTTTTTTTTTTTTTTTTTGTAAAATGTAATAGCTAGAAAATGTTATCTTCGCGCTTGTTTTTGTAAATCATTT
AGTATAGGCTGTTAGCTTTACTGGTACTTTACGCTTTGATTCCAAGAAGCCTTGTGCAGTTGCCCTTATCAAATGG
CCAGCTAAATTAAAGATGCTCTTTTGTGTTGTGAATTTCATAGTTCTGTACAGAGCTTGTTTCAATTTACAAAAA
TAAGTACATTCCACAGAATGCCTAAATTGTGTAATTTCTTTTAAATAATAGTAGGTGAGGGAGAAACATAATGGC

2197/2825
FIGURE 1934B

TCTAGGTCAATCCCTTATCTAAAGACCTTGTTCAACTTCATAGTCCCTTTTCCTTTTAAAGAGGAGAAGAGAAAA
TCCCCCTGGCCAGGCATGGTGGCTCACATCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGTGGATCACCTA
AGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCTATCTCTACTGCAAAATACAAAAATTAGCCGG
GCTTGGTGGCGGGTGCCTGTAATCCCAGCTACTCGGGAGGTTGAGGCAGGAGAATCACTTGAACCCAGGAGGCAG
AGTTGTCAGTGGGCCAAGATTACGGCATTACATTCCATCCAGCCTGGGCGACAAGAGCAAAATTCCGTCTCGAAA
AATCACCAGGTACATACCTCTCAAGTTTGATAAGTCCATCTTTTGAGTTTTCTTTTAGCTCTTTCAAAAGATTAC
GAGGGCAATACATATTTTTTTTTTTTTTATTCTCCAGCCCATATCATACTTGGGTATGCCTGTTGGTACCATAA
GCCTAAACTCTCCTTCACTGCAATGCCTTTGAGTCAGTAGCAATAGTAAAGACTAGAAACAAAGAAAAATTAGAA
TTTGGTATGTGATATGATTGTTTCATACAATATGTTATAATAGCAATATTCCAAACAATATGTCCTTCACTGTCTA
TTGTTGGAAGAACTCATGCATCCCAGCATGAAGTAACTCCTAGTTTTAATTTTAGTTATTTTGAGATATATTTGAG
AATTGCATCTCTTCTCTTGAATTTCACTTAGAAGAGATTAACCAGCCAAATATCCAGGAAAGTTTCAAAACATTC
TAGTGTTTTTTCATCCTTTGCTAGGATGCACCTCTGTACAAAACATTCTCTGAAAATCTAATATTTGCAGTATCTA
AGAATTGATCATTTCTATTTTCATTAAATTTCTGTGGAAAAAATTAAATGAATGAAATTCAACTTCATAATTCAGT
TCATCAGCTTTTGTATCTTGAGAATCTAAACACGTCTXXAAATCTGAAAGAAACCAAGCTGGATTTTGCAGTGCA
TATGTTTGCTAGCTTCCACATCCTGAACCATGTCAAAATTTGGTTTTATTTAGTTACATATAATTTAATGCAAA
GAAATTCGTACTTAAATGTTCTGTTTATTTATGAGTGCCTATCAGGAACACTAATAGGAATGCCATTCAACCAG
TGCTTCTGCCCCCTCTCCAGCTGTTAAATTAGTACTTCTTCATTGGCTTTCTGAAATGTCTGAGTAAAGTAGA
AAAGCAACCTTTGTATGGATGTGGGGATATTTAATAGTATGTATCTTGTTTCATTTTTTTTCTATGATGTATTAA
TATTTATTTTTCTCCAACCCCTGCTCCATTTTCTTAAATATTTTCCAGTTAATAACTAGTTGCTTTATTTCTTA
GCTGAAGTGAGAAAACCAACGGAACAAATACAGATTGGGCAGAGGAGATAGAGTTACATCTTTAAAGGAGTGA
GCCAGTCACCCAGGAGAATCACATGTGTAAGTGTAGGGGTTTTAAGTCTTCATACTTTCACTAAAAATCTGTCT
ACTAACTCTCCACCAACCTTTGCATCAAAACACTTAGGTACCTGCCTGATTAGGGGGGCCCCCTTTAAGGGAAAAA
ACTTTTAAAAAATTAAATGCCTTGGTTTTGTTTTATCTTCTGGGAAAGAACACTTTTACTTGATTAGCAAGATGA
TTATATTATATAACTTGCCCTTAAAAACACTCCAAAAATACTGACTCCTTTTCTCCAATTACAAATGAGTGTGAAG
AAATTCGTGTGTATGATTTGAACACTATTAGGTTTGTATGTGTGTTAATTGGAAGAATTTTATATAGAGTATCT
CTGCTGCTTTTGTTTACCTGGGTACCACACAACCAAAATACACATTGAGATTTCAAGAAATGATGATGAAAGCCAG
AAGGCCAGACCACAGCTCTGCAGCCTGTTTCCTACAACCAGATATAAAACTCTTCTCGTCGCCATGCTGATAGT
CACACTGAAGTAGAAGTGTCCCAACACATTCTCTCTCTCATAATGGCTTCCATTTAATACAGGCAAAGCCCTT
TACCTTAGCAAATTCCTTTATCTTTCAAAGTGACCAAAATGAGGACTTCAACCTTGGCTGCACCTCAATAGGAGA
TGCTGATCTTGAGTTGTAATGAGAAAAGTGGGCATATAGGAGATTTTAGTGACTGCAGTCAGCTGTCTGGCATT
CTTCTCAGTTTGCATCTAAAAGACTACATATGTCAAGCTTATCTCCACCTGAATTTGCTGCCTGCTATAAAAAAC
ATTTCAATTAATATATCCCATTTCTTCTACCTCCATCTCTGGTTTGTCTATTAGTGATTCTGAAAAGCTTAAGAA
AAAAGAATCATTGAGTAGAAAGTGAACATTTTAAGTTATTTTCTTTTTCATTGGCAATTAGTTAACATGTAAAA
TCTTTTCCATTAACTGTATAACTTTTAATAACTATATATTATATATGGGATAAAATATATGGACTGAATTGTGA
GAATATAAATGCATCGAAAGACTCTGGTGTCTGTAAGGACACAAGAATAAGGCTGGAGATGGTCCCAGATCCAAGA
TGTCCCAAAAGCCTTTTGTATCAGTTTCTCTATTTTGGTATTTTGCATAATGCATGGATCCTTAGTTCAAAATGA
GGGACAAAGTTTCTCAGTCAGCCCCACTTCTTTCTTTCTAACCTCTACCTTTCCCTTGCAGAGGAGGTAGTAGA
GATTCTGGAATTGTCTATTTTTATGAATTCCATTATTTTGTCCATGGCATCTCTAATGAAAACAGGTTCTAGAAAT
AAAGGAGTTGATTAGTCTGAACAGTACTAATTAACCTACAAAATAAACGTTAGTGATCAGCCTCTTCTCTATAAA
CAATGACCAATTAGACGTTTCCGTAATTCCATGTATTATGTATAGTACACTCTATAAATGTAAATGTAAATGCTTG
TCTAAAAAGTGCAATTTATTGTACATTGTCCCAACAAATGTTTACTTTTATAATCGTTATGAACTTGAATTGGAT
TAGTATCTTGTTTTTATGTGTGAATGAAGCCTTGTGAAAATAACAAATGCAACTGAGAAGGTAACAAGGTGACTG
TTTTTGTGAGCCAGTGATGTTTTCAATGCTTTGTGTTGCCCCCTTTGGCCCCATTAAAGCAGTAATAAACATTTGTT
CTGAAGTCC

2198/2825
FIGURE 1935

MEEGVPCPAPAAKLTPPVKKSQDMHDERSKLVNEYACRVLELLGMGHR L FVPRL LATS KEDLLQAD FEGALKFFR
VQLPKRYRAEENARRLMEQACNIKVP TKKLK KYEKEYQTMRESQLQQEDPMDRYKRENRR LQEASMRLEQENDDL
AHELVT SKIALRNDLDQAEDKADVLNKELLLTKQRLVETEE EK RKQEEETAQLKEVFRKQLEKA EYEI KKT TAI I
AEYKQICSQLSTRLEKQQAASKEELEVVGKMMACKHCS DIFSKEGALKLAATGREDQGIETDDEKDSLKKQLRE
MELELAQTKLQLVEAKCKIQELEHQRGALMNEIQAAKNSWFSKTLNSIKTATGTQPLQ PAPVTQPPKEST

2199/2825
FIGURE 1936

GGCACGAGGCGCCAGTCCCCTAACCCCTGAGGCTGCCGCGCGGCGGTCACTGCGCCGGGGTAGTGGGCCCCAGTGT
TGCGCTCTCTGGCCGTTCCCTTACACTTTTGCTTCAGGCTCCAGTGCAGGGGCGTAGTGGGATATGGCCAACTCGGG
CTGCAAGGACGTCACGGGTCCAGATGAGGAGAGTTTTCTGTACTTTGCCTACGGCAGCAACCTGCTGACAGAGAG
GATCCACCTCCGAAACCCCTCGGCGGCGTTCTTCTGTGTGGCCCGCCTGCAGGATTTTAAGCTTGACTTTGGCAA
TTCCCAAGGCAAAACAAGTCAAACCTGGCATGGAGGGATAGCCACCATTTTTTCAGAGTCTGGCGATGAAGTGTG
GGGAGTAGTATGGAAGTGAACAAAAGCAATTTAAATTCTCTGGATGAGCAAGAAGGGGTAAAAAGTGGAATGTA
TGTGTAAATAGAAAGTTAAAGTTGCAACTCAAGAAGGAAAAGAAATAACCTGTGGAAGTTATCTGATGACAAATTA
CGAAAGTGCTCCCCCATCCCCACAGTATAAAAAGATTATTTGCATGGGTGCAAAAGAAAATGGTTTGCCGCTGGA
GTATCAAGAGAAGTTAAAGCAATAGAACCAAATGACTATACAGGAAAGGTCTCAGAAGAAATTGAAGACATCAT
CAAAAAGGGGGAAACACAACTCTTTTAGAACATAACAGAATATATCTAAGGGTATTCTATGTGCTAATATAAAAT
ATTTTAACTTTGAGAACAGGGATCTGGGGGATCTCCACGTTTGATCCGTTTTTCAGCAGTGCTCTGAAGGAGTA
TCTTACTTGGGTGATTCTTGTGTTTTAGACTATAAAAAGAACTGGGATAGGAGTTAGACAATTTAAAAGGGGTG
TATGAGGGCCTGAAATATGTGACAAATGAATGTGAGTACCCCTTCTGTGAACACTGAAAGCTATTCTCTTGAATT
GATCTTAAGTGTCTCCTTGCTCTGGTAAAAGATAGATTTGTAGCTCACTTGATGATGGTGCTGGTGAATTGCTCT
GCTCTGTCTGAGATTTTTTAAAAATCAGCTTAATGAGAGTAATCTGCAGACAATTGATAATAACATTTTGAAAATT
GGAAAGATGGTATACTGTTTTTGTAGAGGAATAAACGTATTTGTGGTTTAAAAAAAAAAAAAAAAAAAAAAAAA

2200/2825
FIGURE 1937

MANSGCKDVTGPDEESFLYFAYGSNLLTERIHLRNPSAAFFCVARLQDFKLDFGNSQGKTSQTHGGIATIFQSP
GDEVWGVVWKMNKSNLNSLDEQEGVKSGMYVVIEVKVATQEGKEITCRSYLMTNYESAPPSQYKKIICMGAKEN
GLPLEYQEKLKAIEPNDYTGKVSEEIEDIIKKGETQTL

2201/2825
FIGURE 1938

GTTGGAAATAACTATAACTTAAAGCAAATCTAACCAGTAAGCTATCAAAAAGAAAAATTATATAATTACCAAGT
AGAGTTAATTTACCTGAGTTCTATGAACATATTCATTATTAAAGGAAACCTCAAATTATTGTCCCATTTGGAAGC
AAAAATACATTTATAAATAGCCATTTCTCGTTTTAAAAAACTAATAACATTGAAATAAACAGAACTTAAGCTC
TTCTAGTTTGCCAAAAACCAGAAAGCAAACATCATATACTAAATGATGAAATGCCAAAGCCATTTCCATTATATC
AGAAACGAGACTAATACTTCCTGTCATCATTTACATGATTGTCACTATTATTAAGCATTGTTTTGGTAGTTCTAG
CCATTGCAGTAAGACAGTAGACAGAAAGTCAAATAATTGGCATAAATATTGGAAACAAAAAATTATTTCTACTTT
GAAATGATACAATAGAATAGCTGGAAAGCCCAGGGGACTCTAGTAGAAAACAGCAATGAGGATTAAATGTAAGA
CACTTTGGAAAGCTGATGTGTGAGAAATGTACACAACTAATAGCTTTCTCTTTATTAGTAGTCATCAGTTGAAA
ATGGAAATGACCAAGCAAAAATATTCAACAGAATGACAAAACCTATTGGTTACACCTAGGAATAAATGTGTTAAAG
AAAGGTACAGAGTGAAGGTAATGACCCTTATGAAGAAAACCTTGATATTATAAAAAGTAGTCCTTTTCTCCCTCAG
TTTTTGTCTTCAAATGTTTACTTGGGACAGATCGTGGTTTACATGATGGTCCTCAAACATATTGTGAACAACAT
TAAAAAAGACACATTTTACTCAATAAGTAACATTTTTTGAGAAGCTACTATGTGCTAGGGACCTAGTTTTT
AGTGCAGTGGTCTCCAAAATAATGTACTGGCAGTATGGGAAGAGCGTTTAGAACACTGTACCTTTTTATTGGGA
GGAGAAAAGAAACCTTTGTCAAATATTTAACACCTGCTGCCAGAGGTCTGTAGATTTGATGATTGTGTGCCATGA
GTTACACACAGACTCCTAAATCAGTTTCACCTGTGGTGTCTCATTCTGTTTACTTTGAGCATTTCATTCTAT
ATCTGCTTAGTTATATGGATTTATTCGTCCCATATAATATGTGTAGCCACATGGACACATGTTTTAAAAGGTTTT
AAATTCTGCAAGATAGTGACGATGATGTAAACACAAGAAAAGGGCAAATGGATACATTTTCCTACTCTGTGCTCA
TCAAACATATTACAGGATAAAATTATTGGCTATCTAATAAAAACACAGACTAATAAGACCTGATAAGTTGGACAA
AATGTTTAAAAATTAACATGAAGATGATAGGAAGTATGAATCTATATTCAGTGTCAATTAATGTCAAACCTTTACC
TTATGGTATATTGTACTTTGAGAAATTA

2202/2825
FIGURE 1939

MSNLYLMVYCTLRN

2203/2825
FIGURE 1940A

GCGAAAACAAAAATGCCGCCTAATTGGTCACTGGCCCTTTCTCATGAATGAAGGAGGTTTCTGTTTTAAGAAATA
AAGTGACTCCTCAGCCGTTGATTCACTGCCCACAGGGAGATTTTGAGCAGAGGCTTCCTAGGCTCCGTAGAAATT
TGCATACAGCTTCCACTTCCTGCTTCAGAGCCTGTTCTTCTACTTACCTGGGCCCCGAGAAGGTGGAGGGAGACG
AGAAGCCGCCGAGAGCCGACTACCCTCCGGGCCAGTCTGTCTGTCCGTGGTGGATCTAAGAACTAGAAATGAAC
CGAAGCATTCCCTGTGGAGGTTGATGAATCAGAACCATAACCAAGTCAGTTGCTGAAACCAATCCCAGAATATTCC
CCGGAAGAGGAATCAGAACCACCTGCTCCAAATATAAGGAACATGGCACCCAACAGCTTGTCTGCACCCACAATG
CTTCACAATTCCCTCCGGAGACTTTTCTCAAGCTCACTCAACCCTGAAACTTGCAAATCACCAGCGGCCTGTATCC
CGGCAGGTCACCTGCCTGCGCACTCAAGTTCTGGAGGACAGTGAAGACAGTTTCTGCAGGAGACACCCAGGCCTG
GGCAAAGCTTTCCCTTCTGGGTGCTCTGCAGTCAGCGAGCCTGCGTCTGAGTCTGTGGTTGGAGCCCTCCCTGCA
GAGCATCAGTTTTCATTTATGAAAAACGTAATCAATGGCTGGTATCTCAGCTTTCAGCGGCTTCTCCTGACACT
GGCCATGACTCAGACAAATCAGACCAAAGTTTACCTAATGCCTCAGCAGACTCCTTGGGCGGTAGCCAGGAGATG
GTGCAACGGCCCCAGCCTCACAGGAACCGAGCAGGCCTGGATCTGCCAACCATAGACACGGGATATGATTCCCAG
CCCCAGGATGTCTGGGCATCAGGCAGCTGGAAAGGCCCTGCCCTCACCTCCGTGTGTTACCCCCAGGACCTC
CCCAGACCTCTCAGGTCCAGGGAGTTCCCTCAGTTTGAACCTCAGAGGTATCCAGCATGTGCACAGATGCTGCCT
CCCAATCTTTCCCCACATGCTCCATGGAATACTATTACCATTGTCTGGAAGTCCCGATCACCAGGTGCCATAT
GGCCATGACTACCCTCGAGCAGCCTACCAGCAAGTGATCCAGCCGGCTCTGCCTGGGCAGCCCCCTGCCTGGAGCC
AGTGTGAGAGGCCTGCACCCTGTGCAGAAGGTTATCCTGAATTATCCAGCCCCTGGGACCAAGAAGAGAGGCCC
GCACAGAGAGACTGCTCCTTTCCGGGGCTTTCAAGGCACCAGGACCAGCCACATCACCAGCCACCTAATAGAGCT
GGTGCTCCTGGGGAGTCCTTGGAGTGCCCTGCAGAGCTGAGACCACAGGTTCCCCAGCCTCCGTCCCCAGCTGCT
GTGCCTAGACCCCCCTAGCAACCCTCCAGCCAGAGGAACTCTAAAAACAAGCAATTTGCCAGAAGAATTGCGGAAA
GTCTTTTATCACTTATTTCGATGGACACAGCTATGGAGGTGGTGAAATTCGTGAACTTTTTGTGGTAAATGGCTTC
CAAATGCAATTGACATATTTGAGGATAGAATCCGAGGCATTGATATCATTAAATGGATGGAGCGCTACCTTAGG
GATAAGACCGTGATGATAATCGTAGCAATCAGCCCCAAATACAAACAGGACGTGGAAGGCGCTGAGTCGCAGCTG
GACGAGGATGAGCATGGCTTACATACTAAGTACATTTCATCGAATGATGCAGATTGAGTTCATAAAACAAGGAAGC
ATGAATTTTCAATTTCATCCCTGTGCTCTTCCCAATGCTAAGAAGGAGCATGTGCCACCTGGCTTCAGAACACT
CATGTCTACAGCTGGCCCAAGAATAAAAAAACATCCTGCTGCGGCTGCTGAGAGAGGAAGAGTATGTGGCTCCT
CCACGGGGGCTCTGCCACCCCTTCAGGTGGTTCCCTTTGACACCGTTTCATCCCAGATCACTGAGGCCAGGCC
ATGTTTGGGGCCCTTGTTCTGACAGCATTCTGGCTGAGGCTGGTCGGTAGCACTCCTGGCTGGTTTTTTTCTGTT
CCTCCCCGAGAGGCCCTCTGGCCCCCAGGAAACCTGTTGTGCAGAGCTCTTCCCCGAGACCTCCACACACCCCTG
GCTTTGAAGTGAGTCTGTGACTGCTCTGCATTCTCTGCTTTTAAAAAACCAATTGCAGGTGCCAGTGTCCTATA
TGTTCTCTGACAGTTTGATGTGTCCATTCTGGGCCTCTCAGTGCTTAGCAAGTAGATAATGTAAGGGATGTGG
CAGCAAAAGGAAATGACTACAAACACTCTCCTATCAATCACTTCAGGCTACTTTTATGAGTTAGCCAGATGCTTG
TGTATCCTCAGACCAAATGATTTCATGTACAAATAATAAAATGTTTACTCTTTTGTAAGATTATGTTTTACTTAT
CTCAAAGGAGATACATATAATTTATAATGATATGGGCAGTTGCTTCCAGGGACATCAACAAAGCTGCTTAGATAT
AATATTAGATAAATATAACAGACCACTCTGTATTAATGGATTAAAGCCAGCTAGTTAAACAACCCCTTTTTAACCA
TAATCATGGAAGCTTTATTCTTGCAATAAAGATTTTTAGGCTGGGCGCAGTGGCTCACACCTGTAATCCCAGCAC
TTTGGGAAGCTAAGGCAGGCAGATCATTTGAGGTGAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCCA
TCTCTGCTAAAAATTACAAGAAAGTTAGCCGGGCATGGTGGTGTGCACCTGTAATCCCAGCTACTCGGGAGGCTGA
GGCAGGAGAATCACTTGAACCCGGGAGGCAGAGGTTGCAGTGAGCCGAGATCATGTCACTGCACTCTAGCTTGGG
AGACAGAGCGAGACTCCGTCTCAAAAAACAAACAAACAAATAAAACACCCATTTTTAACAACAACTTTATATA
GCATACAGCCATGATTCTAAATAGTATGATTATGGTTCTCAGGATCTGACTACATAGGTAAAAATATTTGCATAT
GTGTATGAAGTGTTGGGGGATGTAGGCTAGAATTGTAGTCTGTGTTCTAATTTTGGTTCTACCACCAATTAGCTG
TATGACCTTTAGCAAGTCCTTTAACTTTTCTTAGATTCCAGGGACTCATTTATAAAATGACATGGACAAAAGCAT
CTCTAATCACTCTAAAAGATTTGAAGTCTAGGACCTAAATCTAAATACTCTTTTGAGGAGTGACTGAGTTTTCA
TTTTATAAATTATGTCTCTCAGAGGACAAATTTACATTTTCTTAACAGAGACATTTTCTTCTCTTTTTTTTTTGT
TTGAGACAGAGTCTCGCTCTGTCTCAGGCTGGAGTGCAATCTTGGCTCACTGCAACCTGCGCCTC
CTGGGTTCAAGTGATTCTTCTGCCTCAACCTCCCAAGTAGCTAGACCTATAGGCGCCTGCCACCATGCCAGCTA
ATTTTTGTATTTTTAGTAGAGACAGGGTTTCATATTGGCCAGACTGGTCTCGAACTCCTGACCTTGTGATCCGCC

2204/2825
FIGURE 1940B

CACCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCACACCCAGCCAACATTTTCCTCTTTTAAAAA
ATATCTTCTCAGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCAGGCGGATCATGAGGTCAGGAGATCAAGAC
CATCCTGGCTAACACGGTGAACTCCATCTCTACTAAAAATACAAAAAAATAGCCGGGCGTGGTGGCAGGCGCC
TGTAAGTCCCAGCTACTGGGGAGGCTGAGGCAGGAAAATGGTGTCAACCCGGGAGGCGGAGCTTGCAGTGAGCCGA
GATTGCGCCACTGCACTCCAGCCTGGGCAATAGAGTGAGACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAAGTT
CAACAAATACCTCAGGTTGATAATTTTGGATATCTATCTGTATCTATATATCTTGTTTACCTGGTCTCCAGAAAA
AGAACACATACATATCCATATATAAAATATGTATACATGTATCAAATCTACGTAACTATAAAGGTGGGATGG
CTTTAATTATGGCCCAAGCTACTAAGACAATGAAGACTTTTTGGGGCTGCAAGCTACTGCTTCCCTTCTTTATCT
ACTAGCCTCTTAAACAAGGCTCACTTGTGCTACAAGACAGTCCACCGTTTTGTTTTTTTTTCTTTTTTTTGAGA
CAGGGTCTCACTCTTTCCCAGGCTGCAGTACAGTGACACAGTCTCAGCTCACTGCAGCTTTGACCTTGCCGGGCT
CAGGTGACCCTTACACTTCAGCCTCCCAAGTAGCAGGGACTATAGGTGTGCACCAACATGCTTGGTTAATTTTTG
TATTTTTTGTAGAGACAGGGTTTTGCCATGTTGTCCAGGCTAGTCTCGAATTCCTGGGCTCAAGTGATTCACCTG
CCTTGGCCTCCCAAAGTGCTAGGATTACAGATGGGAGCCACCACGCCAGCCAGTCCAGCTCTTATATGTAGCA
CAGGGAAAGGACAAATACTTGTCAACTATAAAATAAGAAACATTGCTAATGCATTGCAAAGAACTAGTTTCATT
TACTTTATAACTTAGATGTCTACTGGGTGAGACGAATGTCTTTGTTCTTTAAAAAATAGGAAAAGAGAAGAAAAA
CTAGCATAACATAAGTACTCATTGTGAAGACTTTCTGACATGTAACATTAGTTCCGTAGTTTTGAGACCTGGTAG
AACTGACTTTCATATTGGATAACCTGGAAAAACCCCAAACACAACTTCAAGTCTTCTTTCTTTTTTTCATTA
TCTTTTTTAGTCTGAGGTGACACCATCATTAAGGATTCGACACCCGTTTGTAATAAAATGACATCAG

2205/2825
FIGURE 1941

MNRSIPVEVDESEFYPSQLLKPIPEYSPEEESEPPAPNIRNMAPNSLSAPTMLHNSSGDFSQAHSTLKLANKHQR
VSRQVTCLRTQVLEDSSEDSFCRRHPGLGKAFPSGCSAVSEPASESVVGALPAEHQFSFMEKRNQWLVSQLSAASP
DTGHDSKSDQSLPNASADSLGGSQEMVQRPQPHRNAGLDLPTIDTGYDSQPQDVLGIRQLERPLPLTSVCYPQ
DLPRPLRSREFFQFEPQRYPACAQMLPPNLSPHAPWNYHYHCPGSPDHQVPYGHDPRAAYQQVIQPALPGQPLP
GASVRGLHPVQKVILNYPSPWDQEERPAQRDCSFPGLSRHQDQPHHQPNNRAGAPGESLECPAELRPQVPQFPSP
AAVPRPPSNPPARGTLKTSNLPEELRKVFITYSMDTAMEVVKFVNFLLVNGFQTAIDIFEDRIRGIDI IKWMERY
LRDKTVMIIVAISP KYKQDVEGAESQLDEDEHGLHTKYIHRMMQIEFIKQGS MNFRFIPVLF PNAKKEHVPTWLQ
NTHVYSWPKNKKNI LLRLLREEEYVAPPRG PLPTLQVVPL

GGACACACACAGGAGGAGGAGGTTTGTAGCTGCTGCCGCCGCCGCTCTGTCTGCTGCGAGTGTGGAGTCGGGACTG
GAGCTGCTGCCGCGGCGACGCCGGGGATCTTTGTGCTAGCTCCCGGCCCTTCTGCCCCGCCGCTTCCCTCAGT
CAGCGTTGCCACTCCTCTCCGGCCGGGCGCCCTGCCTCCATTTCTGCTCTCTGTCCACCACACACACGGCCC
CCCCGATCATGGATCCGGGCAGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGAGCAGCAGCGGCAGCAGCA
GCAGCGACTCGGCGCCTGACTGCTGGGACCAGGCGGACATGGAAGCCCCGGGCGGGGCCCTTGCGGCGGCGGCG
GCTTCCCTGGCGGCGGCGGCGGAGGCCAGCGGGGAGAACTCAGCGCGGCTTACGCCGGCAACTCAACGTCAAC
GCCAAGCCCTTCGTGCCAACGTCCACGCCCGCGAGTTTCGTGCCGTCTTCTGCGGGGCCGGCAGCGCCGCCA
CCCCCAGCTGGCGGCGCGGCCAATAACCACGGAGCCGGCAGCGGCGCGGGAGGCCGTGCGGCACCTGTGGAATCC
TCTCAAGAGGAACAGTCATTGTGTGAAGGTTCAAATTCAGCTGTTAGCATCGAACTTTCAGAACCTATTGTAGAA
AATGGAGAGACAGAAATGTCTCCAGAAGAATCATGGGAGCACAAAGAAGAAATAAGTGAAGCAGAGCCAGGGGGT
GGTTCCTTGGGAGATGGAAGGCCGCCAGAGGAAAGTGCCCATGAAATGATGGAGGAGGAAGAGGAAATCCAAAA
CCTAAGTCTGTGGTTGCACCGCCAGGTGCTCCTAAGAAAAGAGCATGTAAATGTAGTATTATTGGGCACGTAGAT
GCTGGCAAGTCAACCATTGGAGGACAAATAATGTATTTGACTGGAATGGTTGACAAAAGGACGCTTGAAAAGTAT
GAAAGAGAAGCTAAAGAGAAAAACAGAGAAACTTGGTACTTGTCTTGGGCCTTAGACACAAATCAGGAAGAACGA
GACAAGGGTAAAAACAGTAGAAGTGGGTGCTGCCTATTTTTGAAAACCGAAAAGAAGCATTTACAAATTCTAGATGCC
CCTGGCCACAAGAGTTTTGTCCCAAATATGATTGGTGGTGCCTCTCAAGCTGATTGGCTGTGCTGGTAATCTCA
GCCAGGAAAGGAGAGTTTTGAAACTGGATTTGAAAAAGGAGGACAGACAAGAGAACATGCAATGTTGGCAAAGACA
GCAGGTGTAAAACACCTAATTGTGCTAATTAATAAGATGGATGATCCAACAGTAAATTGGAGCAATGAGAGATAT
GAAGAATGTAAGGAGAAACTAGTGCCATTTTTGAAAAAAGTTGGCTTCAATCCCAAAAAGGACATTCACTTTATG
CCCTGCTCAGGACTTACTGGAGCAAATCTCAAAGAGCAGTCGGATTTCTGTCTTGGTACATTGGATTACCGTTT
ATTCCATATCTGGATAATTTGCCGAACCTTCAATAGATCAGTTGATGGACCAATCAGGCTGCCAATTGTGGATAAG
TACAAGGATATGGGCACTGTGGTCCTGGGAAAAGCTGGAATCAGGATCTATTTGTAAAGGCCAGCAGCTTGTGATG
ATGCCAAACAAGCACAACTGGAAGTTCTTGGAATACTTTCCGATGATGTAGAGACTGATACCGTAGCCCCAGGT
GAAAACCTCAAATCAGACTGAAAGGAATTGAAGAAGAGGAGATTCTTCCAGGGTTTATACTTTGTGATCCTAAT
AATCTTTGTCAATTCTGGACGCACATTTGATGCCCAGATAGTGATTATAGAGCACAAATCCATCATCTGCCAGGC
TATAATGCGGTGCTGCATATTCTACCTGTATTGAGGAGGTGGAATAACAGCCTTAATCTGCTTGGTAGACAAA
AAATCAGGAGAAAAAAGTAAGACCCGACCCCGTTTTTGTGAAACAAGATCAAGTATGCATTGCTCGCTTAAGGACA
GCAGGAACCATCTGCCTTGAGACCTTTAAAGACTTCCCTCAGATGGGTGTTTTACCTTAAGAGATGAGGGTAAG
ACCATTGCAATTGAAAAAGTTCTGAAACTGGTTCCAGAGAAAAGACTAAGCATTTTCTTGATGACCCTGCACAATA
CTGTGAGGAAAATTGACTGCAGAAGCCTACTTCACACCGCCTTCTCTTATTTTCTGCCATTGATAAACCTCTCC
CCATATTTTGCAAAGAGGAAATTCACAGCAAAAGTCCACATTATGTCAGCTTCTCATATTGAGAGCTCTGCTAT
GCCACTGTTGAATTTTTCCCAAGATTCTGTCCCTAGCCCTCACTTCAAACCTGCTTCCCTGGACAGATTTGGC
AATAGCTTTGTAAGTGATGTGGACATAATTGCCTACAATAATGAAAACCTACAGGAATTTTTTTATTTTTTCATTT
TCCCTTAGGCATATTTAGTATTTTTCCCCCAGGCCAGATCATTCGTGAGTGTGCGAGTGTGTGTGCACATGTTA
CAAAGGCAACTACCAIGTTAATAAAATATTCAATTTG

2207/2825
FIGURE 1943

MELSEPIVENGETEMSPESWEHKEEISEAEPGGGSLGDGRPPEESAHEMMEEEEEIPKPKSVVAPPGAPKKEHV
NVVFIGHVDAGKSTIGGQIMYLTGMVDKRTLEKYEREAKEKNRETWYLSWALDTNQEERDKGKTVEVGRAYFETE
KKHFTILDAPGHKSFVPMIGGASQADLAVLVISARKGEFETGFEEKGGQTREHAMLAKTAGVKHLIVLINKMDDP
TVNWSNEREYEECKELVPFLKKVGFNPKKDIHFMPCSGLTGANLKEQSDFCPWYIGLPFIPYLDNLPNFRSVDG
PIRLPIVDKYKDMGTVVVLGKLESGSICKGQQLVMPNKHNVLEVLGILSDDVETDTVAPGENLKIRLKGIEEEEIL
PGFILCDPNNLCHSGRTFDAQIVIIIEHKSIIICPGYNAVLHIHTCIEEVEITALICLVDDKKSSEKSKTRPRFVKQD
QVCIARLRTAGTICLETFKDFPQMGRFTLRDEGKTIAIGKVLKLVPEKD

2208/2825
FIGURE 1944

GTCGTGGCTCGTTCCATTCTCGGCGGTGGTACCTGCTCCCGGTGGCCCTGAGGACGTGTGGGCCAGGGGCGGCCC
CGAAATTAGGAAGCGGAGGGGGAGCAGTCTGCAGGTCTGCGGGGCTAAGTGTGCGGGCGGCACCTCGCGTCAA
GAATCCGGAGGAGGAGACTGCAAGGATAGGCCCAGGAGTAATCGAGTCCAAAGAGGAAGTAGCGGCAAACAATCT
CAACGGGGAAAAATGCCCAACAAGAAAACGAAGGAGGGGAGCAGGCCCCCACGCAGAATGAAGAAGAATCCCGCCA
TTTGGGAGGGGGTGAAGGCCAGAAGCCTGGAGGAAATATCAGGCGGGGGCGAGTTAGGCGACTTGTCCCTAATTT
TCGATGGGCCATACCTAATAGGCATATTGAGCACAATGAAGCGAGAGATGATGTAGAAAGGTTTGTAGGGCAGAT
GATGGAAATCAAGAGAAAGACTAGGGAACAGCAGATGAGGCACTATATGCGCTTCCAACTCCTGAACCTGACAA
CCATTATGACTTTTGCCTCATACTTGAATCCTAAAAGTTTTCGCTGAGGTTAATGTGAACACTGCTTTACAAGC
TTGTATTTTTGTGATTTACTTTTTCTGTAAGCCTTTTGGTGTTTACACTTACCAGTTTCTAATGGAAATTAGAAT
TCTAATTGAATATTGTTTTGTCTCAGCCTAAAAGTTACGGTCAGCATGGCAATTCACCTATTTTAGGAAAAATAC
TCTTTTCATAATATGAAATGCATAAAGCAGTTCAAAAAGCAGTCTGTATTCCATCATCTTCCTTTTTTCATTCCAG
TCCTTATTTTTGTAAGTATTACTTTTCCTCCTCCGGCTACCTGGACTCAAAATCTCAGTTGTCTTTGACAGTTTT
TTTCTTGTCCCTGACCAAAAAAGAATGATCATAACCAGAATTCAATGTTTGATATTTTAAGAATGTATGTTCTAG
TGTTTTTCAGAGTGAGTCTACCATCTGTATAAAAAACACCTTGGGGGCAGGCAGGGGCATTTAAAAATGTAGGACC
TATCGTCCAGACTCACAGAGTGGGGCTCCAGAATCTCCATTTTTAACAACTCTCTTAAGTAATTCTGATGTGTA
CCAAAATCAGTGCCATTGGTGTGTGTGTACGTAACATATATACATATGTGTGTGTGTATATATATAATGTGTCA
TAACCGTAAACAATAAACAATATCAAGAT

2209/2825
FIGURE 1945

MESKEELAANNLNGENAAQQENEGGEQAPTQNEEESRHLGGGEGQKPGGNIRRGVRRLVPNFRWAIPNRHIEHNE
ARDDVERFVGQMMETKRKTREQQMRHYMRFTPEPDNHYDFCLIP

2210/2825
FIGURE 1946

CCTCGTGCCATGAGCATTTAGAAATGGAGACCACTTCTGGTGAATTGTCAGATGTTTCCAATGATCCCACCACAT
CTGTCTGTGTAGCTAGTGCCCCAACAAAAGAAGCAATTGACAATACCCTGCTTGAACACAAAGAAAGAAGTGAGA
ATATAAATCTTAATGAAAAGCAAATTCCTTTTCAGGTGCCTAATATTGAAAGGAACCTTTAGACAGTCACAGCCTA
AATCCTATCTTTGCCATTATGAACTGGCTGAGGCCCTTCCACAAGGAAAGATGAATGAGACACCAACTGAGTGGC
TGCGTTATAATTCAGGAATCCTTAACACACAACCCACCCATTACCATTCAAAGAAGCACATGTCAGTGGTCATAC
TTTTGTAACAGCTGAGCAAATCCTGGCTCCATTAGCTTTACCAGAGCAAGCATTATTGATCCCCTAGAAAACCA
TGACAAATTCAAAAATGTACCATGTGAGGTCTACCAGCACATTCTGCAGCCAAAC**ATG**CTGGCCAACAAGGTTAA
ATTTACCTTTCTCCAGCTGCCCTCCCACCCCTAGCACACCTCTGCAGCCTTTGCCTTTGCAGCAGTCCTTATG
TTCTACCTCTGTAACCACTATCCATCACACTGTTTTGCAGCAGCACGCTGCAGCTGCTGCAGCTGCAGCTGCAGC
CGCAGCTGCAGGAACCTTTAAAGTGCTTCAGCCACACCAACAGTTTCTTTCCAAATCCCAGCTCTCACCAGAAC
CTCATTACCTCAGCTCTCAGTAGGACCAGTAGGACCGAGGCTTTGTCTGGGAACCAGCCAACCTTTTGTGCTCC
TCCTCAGATGCCAATCATTCCAGCTTCGGTTCTTCATCCTAGCCATCTGGCTTTCCCATCTTTACCCCATGCACT
CTTTCTTCACTGCTTTCCCCACACCCTACTGTCATCCCTTTGCAACCTCTCTTC**TAG**TCATCACCATAATGGGA
AAAAAATACTCTTGTGAAAATATTGCTATATGCGTTAAGTGTTCACTATGTGGGTACATGGCTATTTAACTGG
TGGAAATAAACTGGCCGATACATGGCGTCATTGGTTTGAAATCATTACTGTAAGTGCAATGATGCAAATAAATC
CCTAAGTTTCTGATATATAATATTATTAAAGCACTGAATAGTTTGAAAATCAATACAATATATGCTATATATTAA
AATGATGTCTTAAGAGTATGTATAATGTACATAAAATATATTTATAGTACTCTAATTTATGTTGTAAAGTATGCT
CCCTTGGTTTTTCTTAATCTTTGTGTATTTGCACCTATTTAATGTTTAGACAAAGCTGATGGCACTATGTTTTGT
ATCATGTTCTTGAACTGTAAATTCAGTGAAAAATATCTCTTGCAATAAATTTTTGTAACTATTT

2211/2825
FIGURE 1947

MLANKVKFTFPFPAALPPPSTPLQPLPLQQSLCSTSVTTIHHTVLQQHAAAAAAAAAAAAAGTFKVLQPHQQFLSQ
IPALTRTSLPQLSVGPVGPRLCPGNQPTFVAPPQMPIIPASVLHPSHLAFPSLPHALFPSLLSPHPTVIPLQPLF

2212/2825
FIGURE 1948A

CGCCCCGGCGCGGGGCCCTGCGGTAGCCTCAGGCCCCCTCCCCTGGACCCGCCGCAGAGCCAGTGCAGAATACAGA
AACTGCAGCCATGACCACGCACGTCACCCTGGAAGATGCCCTGTCCAACGTGGACCTGCTTGAAGAGCTTCCCCCT
CCCCGACCAGCAGCCATGCATCGAGCCTCCACCTTCCCTCCATCATGTACCAGGCTAACTTTGACACAAACTTTGA
GGACAGGAATGCATTTGTACGGGCATTGCAAGGTACATTGAGCAGGCTACAGTCCACTCCAGCATGAATGAGAT
GCTGGAGGAAGGACATGAGTATGCGGTATGCTGTACACCTGGCGCAGCTGTTCCCGGGCCATTCCCCAGGTGAA
ATGCAACGAGCAGCCCAACCGAGTAGAGATCTATGAGAAGACAGTAGAGGTGCTGGAGCCGGAGGTACCAAGCT
CATGAAGTTCATGTATTTTCAGCGCAAGGCCATCGAGCGGTTCTGCAGCGAGGTGAAGCGGCTGTGCCATGCCGA
GCGCAGGAAGGACTTTGTCTCTGAGGCCTACCTCCTGACCCTTGGCAAGTTCATCAACATGTTTGTGTCTGCTGGA
TGAGCTAAAGAACATGAAGTGCAGCGTCAAGAATGACCCTCTGCCTACAAGAGGGGCAGCACAGTTCCCTGCGGAA
GATGGCAGATCCCCAGTCTATCCAGGAGTCGCAGAACCTTTCCATGTTCCCTGGCCAACCACAACAGGATCACCCA
GTGTCTCCACCAGCAACTTGAAGTGATCCAGGCTATGAGGAGCTGCTGGCTGACATTGTCAACATCTGTGTGGA
TTACTACGAGAACAAGATGTACCTGACTCCCAGTGAGAAACATATGCTCCTCAAGGTGATGGGCTTTGGCCTCTA
CCTAATGGATGGAAATGTCAGTAACATTTACAACTGGATGCCAAGAAGAGAATTAATCTTAGCAAAATTGATAA
ATTCTTTAAGCAGCTGCAGGTGGTGGCCCTTTTCGGCGACATGCAGATAGAGCTGGCCAGATACATTGAGACCAG
TGCTCACTATGAAGAGAACAAGTCCAAGTGGACGTGCACCCAGAGCAGCATCAGCCCCAGTACAATATCTGCGA
GCAGATGGTTTCAATCCGGGATGACCACATCCGCTTCATCTCCGAGCTCGCTCGCTACAGCAACAGTGAGGTGGT
GACGGGCTCAGGGCTGGACAGCCAGAAGTCAGACGAGGAGTATCGCGAGCTCTTCGACCTAGCCCTGCGGGGTCT
GCAGCTTCTATCCAAGTGGAGCGCCACGTCATGGAGGTGTACTCTTGGAAAGCTGGTTTATCCACAGACAAGTT
CTGCAACAAGGACTGTCTGGCACCGCGGAGGAATATGAGAGAGCCACACGCTACAATTACACCAGTGAGGAAAA
ATTTGCCTTTCGTTGAGGTGATCGCCATGATCAAAGGCCTGCAGGTGCTCATGGGCAGGATGGAGAGCGTCTTCAA
CCAGGCCATCAGGAACACCATCTACGCGCATTGTCAGGACTTCGCCCAGGTGACGCTGCGTGAGCCCCCTGCGGCA
GGCGGTACGGAAGAAGAAGAATGTCTCATCAGCGTCTTACAGGCAATTGAAAGACCATCTGTGACTGGGAGGG
AGGGCGAGAGCCCCCTAATGACCATGCTTGAGAGGGGAGAAGGACCCCAAAGGTGGATTTGATATCAAGGTGCC
CCGGCGTGCTGTGGGGCCATCCAGCACACAGCTGTACATGGTGGGACCATGCTTGAATCACTCATTGCAGACAA
AAGCGGCTCCAAGAAGACCTGAGGAGCAGCCTGGATGGACCCATTGTCTCGCCATAGAGGACTTTCACAAACA
GTCCTTCTTCTTACACATCTGCTCAACATCAGTGAAGCCCTGCAGCAGTGTGTGACCTCTCCAGCTCTGGTT
CCGAGAATTCTTCTGGAGTTAACCATGGGCGGACGAATCCAGTTCCCCATCGAGATGTCCATGCCCTGGATTCT
AACGGACCATATCTGGAACCAAAGAACCTTCCATGATGGAGTATGTCTCTACCTCTGGATCTGTACAACGA
CAGCGCCTACTATGCTCTGACCAAGTTTAAAAAGCAGTTCTGTACGATGAGATAGAAGCTGAGGTGAACCTGTG
TTTTGATCAGTTTGTCTACAAGCTGGCAGACCAGATCTTTGCTTACTACAAAGCCATGGCTGGCAGTGTCTGTT
GGATAAACGTTTTTCGAGCTGAGTGTAAGAATTATGGCGTCATCATTCGCTATCCACCGTCCAATCGCTATGAAC
ACTGCTGAAGCAGAGACACGTCCAGCTGTTGGGTAGATCAATTGACTTGAACAGACTCATTACCCAGCGCATCTC
TGCCGCCATGTATAAATCCTTGGACCAAGCTATCAGCCGCTTTGAGAGTGAGGACCTGACCTCCATTGTGGAGCT
GGAGTGGCTGCTGGAGATTAACCGGCTCACGCATCGGCTGCTCTGTAAGCATATGACGCTGGACAGCTTCGATGC
CATGTTCCGAGAGGCCAATCACAATGTGTCCGCCCCCTATGGCCGTATCACCTGCATGTCTTCTGGGAACCTGAA
CTTTGACTTTCTCCCCAACTACTGCTACAATGGGTCCACTAACCGTTTTGTGCGGACTGCCATTCTTTTACCCA
AGAACCACAACGAGACAAACCTGCCAACGTCCAGCCTTATTACCTCTATGGATCCAAGCCTCTCAACATTGCCTA
CAGCCACATCTACAGCTCCTACAGGAATTTTCGTGGGGCCACCTCATTTCAGACTATCTGCAGACTCCTGGGTTA
TCAGGGCATCGCTGTGGTTCATGGAGGAAGTCTAAAGATTGTGAAGAGCTTGCTCCAAGGAACCATCTCCAGTA
TGTGAAAACACTGATAGAGGTGATGCCCAAGATATGCCGCTTGCCCCGACATGAGTATGGCTCCCCAGGGATCCT
GGAGTTCTTCCACCACCAGCTGAAGGACATCATTGAGTACGCAGAGCTCAAAACAGACGTGTTCCAGAGCCTGAG
GGAAGTGGGCAATGCCATCCTCTTCTGCCTCCTCATAGAGCAAGCTCTGTCTCAGGAGGAGGTCTGCGATTTGCT
CCATGCCGCACCTTCCAAAACATCTTGCCTAGAGTCTACATCAAAGAGGGGGAGCGCCTGGAGGTCCGGATGAA
ACGTCTGGAAGCCAAGTATGCCCCGCTCCACCTGGTCCCTCTGATCGAGCGGCTGGGGACCCCTCAGCAAATCGC
CATTGCTCGCGAGGGTGACCTCCTGACCAAGGAGCGGCTGTGCTGTGGCCTGTCCATGTTGAGGTTCATCCTGAC
CCGATTCGGAGCTACCTGCAGGACCCCATCTGGCGGGGCCACCGCCACCAATGGCGTCATGCACGTCGATGA
GTGTGTGGAGTTCCACCGGCTGTGGAGCGCCATGCAGTTCGTGTACTGCATCCCTGTGGGAACCAACGAGTTTAC
AGCTGAGCAGTGTTTCGGCGATGGCTTGAAGTGGGTGGTTGCTCCATCATTGTCTGCTGGGCCAGCAGCGTCG

2213/2825
FIGURE 1948B

CTTTGACCTGTTGACTTCTGTTACCACCTGCTAAAAGTGCAGAGGCAGGACGGGAAGGATGAAATCATTAAAGAA
TGTGCCCCTGAAGAAGATGGCCGACCGGATCAGGAAGTATCAGATCTTGAACAATGAGGTTTTTGCCATCCTGAA
CAAATACATGAAGTCCGTGGAGACAGACAGTTCCACTGTGGAGCATGTGCGCTGCTTCCAGCCACCCATCCACCA
GTCCTTGGCCACCACTTGCTTAAGCAGAAGATCCTGCAGACCCTTATCTGGAGGAGGAAGAGAAGCAGGAGAGAGA
AAGCCACAGCCAGCCTGCCATAGGATCCAACCTGGACAACGTGTGGGATGGACCTGGAAACAAGCACCTCCCCAAA
CACATCACCCTCCCTAGGGCGGGGCCTGTGCATGCTCTCCCATGACATCTCCATGCTGGTTTCTCCATAGCATA
AATG

2214/2825
FIGURE 1949

APARGPAVASGSPSPGPAAEPVQNTETAAMTTHVTLEDALSNVDLLEELPLPDQQPCIEPPSSIMYQANFDTNFE
DRNAFVTGIARYIEQATVHSSMNEMLEEGHEYAVMLYTWRSRCSRAIPQVKCNEQPNRVEIYEKTVEVLEPEVTKL
MKFMYFQRKAIERFCSEVKRLCHAERRKDFVSEAYLLTLGKFINMFAVLDELKNMKCSVKNDHSAYKRAAQFLRK
MADPQSIQESQNLSMFLANHNRTQCLHQQLLEVIPGYEELLADIVNICVDYYENKMYLTPSEKHMLLKVMGFGLY
LMDGNVSNIIYKLDKAKKRINLSKIDKFFKQLQVVPLFGDMQIELARYIETSAHYEENKSKWTCTQSSISPQYNICE
QMVQIRDDHIRFISELARYSNSEVVTGSGLD SQKSDEEYRELFDLALRGLQLLSKWSAHVMEVYSWKLVHPTDKF
CNKDCPGTAEERYERATRYNYTSEEKFAFVEVIAMIKGLQVLMGRMESVFNQAIRNTIYAALQDFAQVTLREPLRQ
AVRKKKNVLISVLQAIRKTICDWEGGREPPNDPCLRGEKDPKGGFDIKVPRRAVGPSSTQLYMVRTMLES LIADK
SGSKKTLRSSLDGPIVLAIEDFHKQSFFFFTHLLNISEALQQCCDLSQLWFRFFLELTMGRRIOFP IEMSMPWIL
TDHILETKEPSMMEYVLYPLDLYNDSAYYALTKFKKQFLYDEIEAEVNLCFDQFVYKLADQIFAYYKAMAGSVLL
DKRFRAECKNYGVIIPYPPSNRYETLLKQRHVQLLGRSIDLNRLITQRISAAMYKSLDQAISRFESDLTSIVEL
EWLLEINRLTHRLLCXMTLDSFDAMFREANHNVSAPYGRITLHVFWELNFDLFPNYCYNGSTNRVVRTAIPFTQ
EPQORDKPANVQPYLYGSKPLNIAYSHIYSSYRNFGVPPHFKTICRLLGYQGIAVVMEELLKIVKSLLQGTLQY
VKTLIEVMPKICRLPRHEYGSPGILEFFHHQLKDIIEYAEKTDVFSQSLREVGNAILFCLLIEQALSQEEVCDLL
HAAPFQNILPRVYIKEGERLEV MRKRLAKYAPLHLVPLIERLGTPQQIAIAREGDLLTKERLCCGLSMFEVILT
RIRSYLQDPIWRGPPPTNGVMHVDECVEFHRLWSAMQFVYCIPVGTNEFTAEQCFGDGLNWWGCSIIVLLGQQR
FDLFDFCYHLLKVQRQDGKDEIIKNVPLKKMADRIRKYQILNNEVFALNKYMKSVETDSSTVEHVRCFQPP IHQ
SLATTC

2215/2825
FIGURE 1950

AAGAACCAAATGTTATAAATATTTGCTGAAGTTTATACATTTTAAATCTGCATTAAGGTAATGGTTAGTTGGTCAA
TGCTGCCTCTGCCTCAGTCTGCAGCGAGAACATTGTGTTTTTCATTTGGTAAATACAGTTGAGCATCCACCGGNGT
NNCAAGTGGCTGGTATTAGGTGCTAAGGATGCAGGGGTGAACAAAACAGGCCCTGCCTCCATGCAATTCTCATT
CTCTGGGTGGCACAGTTTTATGCAAGTTATCACATGTGAAAGAATTTATAGTTTTTTATTATGCAAGTTTTCAAAT
AAATCCAATTGCTGTTATCTTTTGTTTTTCATGGAATATCTCGCATCTCAGAACACAGTTTGGGAATCATATTTT
ATTTAGTGTTCAGATGCTATCTATTATATCTAAGATATTTACATTTAGCCATTCGTTTTATAAAAAACTCCA
GGCAAACCTCAGCTGGACTTTTCTTGCTTTAATAACAGCTTTATTGAGGATACAATTCACATATCTACGAAATTCT
TTTTAAAAATTTTACAGTTTCAGGCCGGGCGCGGTGGCTCATGCC

2216/2825
FIGURE 1951

MQFSFSGWHSFMQVITCERIYSFYYASFQINPIAVIFCFSWNISHLRTQFGNHILFSVFERCYLLYLRYFTFSHSF
YKKLQANSAGLFLLNNSFIEDTIHISTKFFLKILHVQAGRGGSC

2217/2825
FIGURE 1952

AAAGCATCCAGTTCCTTTGCGGTCTCTTCTTCAGCACATGCCAAAGCTGTTCTCACGGCCTGTGAGACAAGAG
CATCTTGGATGTAGGACAATGGAAGAGTTAGATGCCTTATTGGAGGAACTGGAACGCTCCACCCCTTCAGGACAGT
GATGAATATTCCAACCCAGCTCCTCTTCCCCCTGGATCAGCATTCCAGAAAGGAGACTAACCTTGATGAGACTTCG
GAGATCCCTTTCTATTTCAGGATAACACAAGTCCCTTGCCGGCGCAGCTCGTGTATACTACCAATATCCAGGAGCTC
AATGTCTACAGTGAAGCCCCAAGAGCCAAAGGAATCACCACCACCTTCTAAAACGTCAGCAGCTGCTCAGTTGGAT
GAGCTCATGGCTCACCTGACTGAGATGCAGGCCAAGGTTGCAGTGAGAGCAGATGCTGGCAAGAAGCACTTACCA
GACAAGCAGGATCACAAGGCCTCCCTGGACTCAATGCTTGGGGGTCTGGAGCAGGAATTGCAGGACCTTGGCATT
GCCACAGTGCCCAAGGGCCATTGTGCATCCTGCCAGAAACCGATTGCTGGGAAGGTGATCCATGCTCTAGGGCAA
TCATGGCATCCTGAGCATTTTGTCTGTACTCATTGCAAAGAAGAGATTGGCTCCAGTCCCTTCTTTGAGCGGAGT
GGCTTGGCCTACTGCCCCAACGACTACCACCAACTTTTTTCTCCACGCTGTGCTTACTGCGCTGCTCCCATCCTG
GATAAAGTGCTGACAGCAATGAACCAGACCTGGCACCCAGAGCACTTCTTCTGCTCTCACTGCGGAGAGGTGTTT
GGTGCAGAAGGCTTTTCATGAGAAGGACAAGAAGCCATATTGCCGAAAGGATTTCTTAGCCATGTTCTCACCCAAG
TGTGGTGGCTGCAATCGCCAGTGTTGGAAAACCTACCTTTCAGCCATGGACACTGTCTGGCACCCAGAGTGCTTT
GTTTGTGGGGACTGCTTCACCAGTTTTTCTACTGGCTCCTTCTTTGAACTGGATGGACGTCCATTCTGTGAGCTC
CATTACCATCACCGCCGGGGAACGCTCTGCCATGGGTGTGGGCAGCCCATCACTGGCCGTTGTATCAGTGCCATG
GGGTACAAGTTCATCCTGAGCACTTTGTGTGTGCTTTCTGCCTGACACAGTTGTGCAAGGGCATTTCAGGGAG
CAGAATGACAAGACCTATTGTCAACCTTGCTTCAATAAGCTCTTCCCACTGTAATGCCAACTGATCCATAGCCTC
TTCAGATTCTTATAAAATTTAAACCAAGAGAGGAGAGGAAAGGGTAAATTTTCTGTTACTGACCTTCTGCTTAA
TAGTCTTATAGAAAAAGGAAAGGTGATGAGCAAATAAAGGAACTTCTAGACTTTACATGACTAGGCTGATAATCT
TATTTTTTAGGCTTCTATACAGTTAATTCTATAAATCTCTTTCTCCCTCTCTTCTCCAATCAAGCACTTGGAGT
TAGATCTAGGTCCTTCTATCTCGTCCCTCTACAGATGTATTTTCCACTTGCATAATTCATGCCAACACTGGTTTT
CTTAGGTTTCTCCATTTTACCTCTAGTGATGGCCCTACTCATATCTTCTCTAATTTGGTCTCTGATACTTGTTC
TTTTACGTTTTTCCATTTGCCCTGTGGCTCACTGTCTTACAATCACTGCTGTGGAATCATGATAACCACTTTTAG
CTCTTTGCATCTTCCTTCAGTGTATTTTTGTTTTTCAAGAGGAAGTAGATTTTAACTGGACAACCTTGGAGTACTG
ACATCATTGATAAATAAACTGGCTTGTGGTTTCAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

2218/2825
FIGURE 1953

MEELDALLEELERSTLQDSDEYSNPAPLPDQHSRKETNLDETSEILSIQDNTSPLPAQLVYTTNIQELNVYSEA
QEPKESPPPSKTSAAAQLDELM AHLTEMQAKVAVRADAGKKHLPDKQD HKASLDSMLGGLEQELQDLGIATVPKG
HCASCQKPIAGKVIHALGQSWHPEHFVCTHCKEEIGSSPFFERSGLAYCPNDYHQLFSPRCAYCAAPILDKVLTA
MNQ TWHPEHFFC SHCGEVFGAEGFHEKD KPYCRKDFLAMFSPKCGGCNRPVLENYLSAMDTVWHPECFVCGDCF
TSFSTGSFFELDGRPFCE LH YHRRGT LCHGCGQPI TGRCISAMGYKFHPEHFVCAFLTQLSKGIFREQNDKTY
CQPCFNKLFPL

2219/2825
FIGURE 1954

GGCACGAGGGTCTACCCGCCCTGCCCTGAGGACCCTAGTCCAACATGGCGGCGCCAGCGGAGGGTGGAACGGC
GTCGGCGCGAGCTTGTGGGCCGCGCTGCTCCTAGGGGCCGTGGCGCTGAGGCCGGCGGAGGCGGTGTCCGAGCCC
ACGACGGTGGCGTTTGACGTGCGGCCCGGCGGCGTCTGTCATTCTTCTCCATAACGTGGGCCCCGGGGACAAA
TATACGTGTATGTTCACTTACGCCTCTCAAGGAGGGACCAATGAGCAATGGCAGATGAGTCTGGGGACCAGCGAA
GACCACCAGCACTTCACCTGCACCATCTGGAGGCCCCAGGGGAAGTCCTATCTGTACTTCACACAGTTCAAGGCA
GAGGTGCGGGGCGCTGAGATTGAGTACGCCATGGCCTACTCTAAAGCCGCATTTGAAAGGGAAAGTGATGTCCCT
CTGAAAAC TGAGGAATTTGAAGTGACCAAAACAGCAGTGGCTCACAGGCCCGGGGCATTCAAAGCTGAGCTGTCC
AAGCTGGTGATTGTGGCCAAGGCATCGCGCACTGAGCTGTTGAACCAGCAGCCCTGTTGCGGGTGGCACCTTCTCAT
CTCCGGTGAAGCTGAAGGGGCCTGTGTCCCTGAAAGGGCCAGCACATCACTGGTTTTCTAGGAGGGACTCTTAAG
TTTTCTACCTGGGCTGACGTTGCCTTGTCCGGAGGGGCTTGCAGGGTGGCTGAAGCCCTGGGGCAGAGAACAGAG
GGTCCAGGGCCCTCCTGGCTCCCAACAGCTTCTCAGTTCCTCCTGCTGAGCTCTTCTGGACTCAGGATCGC
AGATCCGGGGCACAAAGAGGGTGGGGAACATGGGGGCTATGCTGGGGAAAGCAGCCATGCTCCCCCGACCTCCA
GCCGAGCATCCTTCATGAGCCTGCAGAACTGCTTTCCTATGTTTACCCAGGGGACCTCCTTTCAGATGAACTGGG
AAGAGATGAAATGTTTTTTCATATTTAAATAAATAAGAACATTAAAAAGCAAAAAAAAAAAAAAAAAAAAA

2220/2825
FIGURE 1955

MAAPSGGWNGVGASLWAALLLGAVALRPAEAVSEPTTVAFDVRPGGVVHSF SHNVGPGDKYTCMFTYASQGGTNE
QWQMSLGTSEDHQHFTCTIWRPQGKSYLYFTQFKAEV RGAEIEYAMAYSKA AFERESDVPLKTEEFVTKTAVAH
RPGAFKAELSKLVIVAKASRTEL

2221/2825
FIGURE 1956

CTAACCCAGAAACATCCAATTCTCAAACCTGAAGCTCGCACTCTCGCCTCCAGCATGAAGTCTCTGCCGCCCTTC
TGTGCCTGCTGCTCATAGCAGCCACCTTCATTCCCCAAGGGCTCGCTCAGCCAGATGCAATCAATGCCCCAGTCA
CCTGCTGTTATAACTTCACCAATAGGAAGATCTCAGTGCAGAGGCTCGCGAGCTATAGAAGAATCACCAGCAGCA
AGTGTCCCAAAGAAGCTGTGATCTTCAAGACCATTTGTGGCCAAGGAGATCTGTGCTGACCCCAAGCAGAAAGTGGG
TTCAGGATTCCATGGACCACCTGGACAAGCAAACCCAAACTCCGAAGACTTGAAACTCACTCCACAACCCAAGA
ATCTGCAGCTAACTTATTTTCCCCTAGCTTTCCCCAGACACCCTGTTTTATTTTATTATAATGAATTTTGTGTGT
TGATGTGAAACATTATGCCTTAAGTAATGTTAATTCTTATTTAAGTTATTGATGTTTTAAGTTTATCTTTCATGG
TACTAGTGTTTTTTAGATACAGAGACTTGGGGAAATTGCTTTTCCTCTTGAACCACAGTTCTACCCCTGGGATGT
TTTGAGGGTCTTTGCAAGAATCATTAAATACAAAGAATTTTTTTTAAATTCCAATGCATTGCTAAAATATTATTG
TGGAAATGAATATTTTGTAACATTACACCAAATAAATATATTTTTGTACAAAAAAAAAAAAA

2222/2825
FIGURE 1957

MKVS AALLCLLLIAATFIPQGLAQPDAINAPVTCCYNFTNRKISVQRLASYRRITSSKCPKEAVIFKTIVAKEIC
ADPKQKWVQDSMDHLDKQTQTPKT

2223/2825
FIGURE 1958

CCCCAGCCACCCTGAACCAGTTACCTCTGTACTTTTACGCTCGGGATGCAAGCTGTCTTGTACTAACTAAGAAGT
TAAGCCTAATCTTTTTGTACTGTTGACACGTATGCTTATTTATCACAATCAGGAAATGCTTTCTCATTTTAGCTC
AAGGATCTAAATTTACTTGATCGCTGTATAAAAGAAACATTAAGACTTAGACCTCCTATAATGATCATGATGAGA
ATGGCCAGAACTCCTCAGGTGAGTATCTTGGCTACATCTCCCCTCTATACCCCAGTTATTTATCAAAAAGAAG
AAATA

2224/2825
FIGURE 1959

MIMMRMARTPQVSILATSSPLYPQLFIKKK

2225/2825
FIGURE 1960

AGCGACCGCAGCCGGGGGACGCGGGAGGATGGGAGCAAGTGGAGATCCTGAGGAAATTCATCCAGAGGGTCCAGG
CCATGAAGAGTCCTGACCACAATGGGGAGGACAACCTCGCCCCGGGACTTCATGCGGTTAAGAAGATTGTCTACCA
AATATAGAACAGAAAAGATATATCCACAGCCACTGGAGAAAAAGAAGAAATGTTAAAAAGAACAGATACAAGG
ACATACTGCCATTTGATCACAGCCGAGTTAAATTGACATTAAAGACTCCTTCACAAGATTCAGACTATATCAATG
CAAAATTTTATAAAGGGCGTCTATGGGCCAAAAGCATATGTAGCAACTCAAGGACCTTTAGCAAAATACAGTAATAG
ATTTTTGGAGGATGATATGGGAGTATAATGTTGTGATCATTGTAATGGCCTGCCGAGAATTTGAGATGGGAAGGA
AAAAATGTGAGCGCTATTGGCCTTTGTATGGAGAAGACCCCATACGTTTGCACCATTTAAAATTTCTTGTGAGG
ATGAACAAGCAAGAACAGACTACTTCATCAGGACACTCTTACTTGAATTTCAAATGAATCTCGTAGGCTGTATC
AGTTTCATTATGTGAAGTGGCCAGACCATGATGTTCCCTTCATCATTGATTCTATTCTGGACATGATAAGCTTAA
TGAGGAAATATCAAGAACATGAAGATGTTCCATTGTTGATTTCATTGCAGTGCAGGCTGTGGAAGAACAGGTGCCA
TTTGTGCCATAGATTATACGTGGAATTTACTAAAAGCTGGGAAAATACCAGAGGAATTTAATGTATTTAATTTAA
TACAAGAAATGAGAACACAAAGGCATTCTGCAGTACAAAACAAAGGAGCAATATGAACCTGTTTCATAGAGCTATTG
CCCAACTGTTTGAAAAACAGCTACAACATATGAAATTCATGGAGCTCAGAAAATTGCTGATGGAGTGAATGAAA
TTAACTACTGAAAACATGATCAGCTCCATAGAGCCTGAAAAACAAGATTCTCCTCCTCCAAAACCACCAAGGACCC
GCAGTTGCCCTTGTGAAGGGGATGCTAAAGAAGAAATACTGCAGCCACCGGAACCTCATCCAGTGCCACCCATCT
TGACACCTTCTCCCCCTTCAGCTTTTCCAACAGTCACTACTGTGTGGCAGGACAATGATAGATACCATCCAAAGC
CAGTGTGTCATATGGTTTCATCAGAACAACATTCAGCAGACCTCAACAGAACTATAGTAAATCAACAGAACTTC
CAGGGAAAAATGAATCAACAATTGAACAGATAGATAAAAAATTGGAACGAAATTTAAGTTTTGAGATTAGAAGG
TCCCTCTCCAAGAGGGACCAAAAAGTTTTGATGGGAACACACTTTTGAATAGGGGACATGCAATTTAAATTAAT
CTGCTTCACCTTGTATAGCTGATAAAATCTCTAAGCCACAGGAATTAAGTTTCAGATCTAAATGTCGGTGATACTT
CCCAGAATTTCTTGTGTGGACTGCAGTGTAACACAATCAAACAAAGTTTTAGTTACTCCACCAGAAGAATCCCAGA
ATTCAGACACACCTCCAAGGCCAGACCGCTTGCCCTCTTGATGAGAAAGGACATGTAACGTGGTCATTTTCATGGAC
CTGAAAATGCCATACCCATACCTGATTTATCTGAAGGCAATTCCTCAGATATCAACTATCAAACCTAGGAAAACCTG
TGAGTTTAACACCAAGTCCTACAACACAAGTTGAAACACCTGATCTTGTGGATCATGATAACACTTCACCACTCT
TCAGAACACCCCTCAGTTTTACTAATCCACTTCACTCTGATGACTCAGACTCAGATGAAAGAACTCTGATGGTG
CTGTGACCCAGAATAAACTAATATTTCAACAGCAAGTGCCACAGTTTCTGCTGCCACTAGTACTGAAAGCATT
CTACTAGGAAAGTATTGCCAATGTCCATTGCTAGACATAATATAGCAGGAACAACACATTCAGGTGCTGAAAAAG
ATGTTGATGTTAGTGAAGATTCACCTCCTCCCTACCTGAAAGAACTCCTGAATCGTTTGTGTTAGCAAGTGAAC
ATAATACACCTGTAAAGATCGGAATGGAGTGAACCTCAAAGTCAGGAACGATCTGAACAAAAAAGTCTGAAGGCT
TGATAACCTCTGAAAATGAGAAATGTGATCATCCAGCGGGAGGTATTCACTATGAAATGTGCATAGAATGTCCAC
CTACTTTCAGTGACAAGAGAGAACAATATCAGAAAAATCCAACAGAAGCCACAGATATTGGTTTTGGTAATCGAT
GTGGA AAAACCCAAAGGACCAAGAGATCCACCTTCAGAATGGACATGATTTCAGGGAGCTAGAAGACACTTTAAGTT
ATACTGGAAAATTCAGGTGCCACTGAAAGCCAGATTTATAGTATTCCATCTTTAATATGTGGGACTAACAGCAGT
GTAGATTGTTACCTTAATATTTTTTGCTGGGACCATCTACCTGCCTTATACTACACTTAGGAAAAAGTATTACAT
ATGGTTTATTTTGAACTTCAAGTATTATTGCCTTAATGTCTCTTAACCCTGTTACACGCTGCTTGTAGACATGT
TAATATAGTAATACCTTTATGATATATTGAGTTTAAAGGACTACTCTTTTTCTGTTTTATCATGTATGCATTATTT
TGTATATGTACAGGGCAAGTAGGTATATAATTTGATAAAGTTGCAATTGAAATATTATTAACAGAAGATGTAAGA
AATTTCTGCAATGGTCTAAATCTTTGTGTACTTTATTTGTAAATTAATTTGCCCTGGAGTTTTAGAAAATAGTTTCT
GAATTTTAAACTTGCTGGATTTCATGCAGCCAGCTTTGCAGGTTATCAGAGATCAAAGATTGTAATAATAATTTTG
TAAATTGTAAGCAAAAAGTTATTTTTATATTATATACAGTCTAATTGTTTCATCCTAATTGTTCCCTGTTTTTCATCT
AGTCAGAGATTTCAGTAAGTGCCTTGGAACAATATTGAATTCCTTAGCTTGTGTGTGTTTCTTTAATATTTGAAC
TCAAGTGGGATTAGAAGACTATCAAATACATGTATGTTTCAGGATATTTGACCTGTCATTAAAAAAAACAAACA
GTTTTACAGTG

2226/2825
FIGURE 1961

MEQVEILRKFIQRVQAMKSPDHNGEDNFARDFMRLRRLSTKYRTEKIYPTATGEKEENVKKNRYKDILPFDHSRV
KLTLKTPSQSDSYINANFIKGVYGPAYVATQGPLANTVIDFWRMIWEYNVVIIVMACREFEMGRKKCERYWPLY
GEDPITFAPFKISCEDEQARTDYFIRTLLEFQNESRRLYQFHYVNWPDHDPSSFDSSILDMISLMRKYQEHEDV
PICIHCSAGCGRTGAICAIDYTWNLLKAGKIPEEFNVFNLIQEMRTQRHSAVQTKEQYELVHRAIAQLFEKQLQL
YEIHGAQKIADGVNEINTENMISSIEPEKQDSPPPKPPRTRSCLEVGDAKEEILQPPEPHPVPPILTPSPPSAFP
TVTTVWQDNDRYHPKPVLMVSSEQHSADLNRNYSKSTELPGKNESTIEQIDKKLERNLSFEIKKVPLQEGPKSF
DGNTLLNRGHAIIKISASPCIAADKISKPOELSSDLNVGDTSONSCVDCSVTQSNKVSVPPEESQNSDTPPRPDR
LPLDEKGHVTWSFHGPENAIPIPDLEGNSSDINYQTRKTVSLTPSPTTQVETPDLDVHDNTSPLFRTPLSFSTNP
LHSDDSDSDERNSDGAVTQNKTNISTASATVSAATSTESISTRKVLPMIARHNIAGTTHSGAEKDVDVSEDSPP
PLPERTPESFVLASEHNTPVRSWSELQSQERSEQKKSEGLITSENEKCDHPAGGIHYEMCIECPPTFSKREQI
SENPTEATDIGFGNRCGKPKGPRDPPSEWT

2227/2825
FIGURE 1962

CGACGAGCCATGGTTGCTGGGAGCGACGCGGGGCGGGCCCTGGGGGTCCTCAGCGTGGTCTGCCTGCTGCACTGC
TTTGTTTTTCATCAGCTGTTTTTCCCAACAAATATATGGTGTGTGTATGGGAATGTAACCTTCCATGTACCAAGC
AATGTGCCTTTTAAAAGAGGTCCTATGGAAAAACAAAAGGATAAAGTTGCAGAACTGGAAAATTCTGAATTCAGA
GCTTTCTCATCTTTTAAAAATAGGGTTTATTTAGACACTGTGTTCAGGTAGCCTCACTATCTACAACCTAACATCA
TCAGATGAAGATGAGTATGAAATGGAATCGCCAAATATTACTGATACCATGAAGTTCTTTCTTTATGTGCTTGAG
TCTCTTCCATCTCCACACTAACTTGTGCATTGACTAATGGAAGCATTGAAGTCCAATGCATGATACCAGAGCAT
TACAACAGCCATCGAGGACTTATAATGTACTCATGGGATTGTCCTATGGAGCAATGTAAACGTAACCTCAACCAGT
ATATATTTTAAAGATGGAAAATGATCTTCCACAAAAAATACAGTGTACTCTTAGCAATCCATTATTTAATACAACA
TCATCAATCATTTTGACAACCTGTATCCCAAGCAGCGGTCATTCAAGACACAGATATGCACTTATACCCATACCA
TTAGCAGTAATTACAACATGTATTGTGCTGTATATGAATGGTATTCTGAAATGTGACAGAAAACCAGACAGAACC
AACTCCAATTGATTGGTAACAGAAGATGAAGACAACAGCATAACTAAATTATTTTAAAAACTAAAAAGCCATCTG
ATTTCTCATTTGAGTATTACAATTTTGAACAACCTGTTGGAAATGTAACCTGAAGCAGCTGCTTTAAGAAGAAAT
ACCCACTAACAAAGAACAAGCATTAGTTTTGGCTGTCATCAACTTATTATATGACTAGGTGCTTGCTTTTTTTGT
CAGTAAATTGTTTTTACTGATGATGTAGATACTTTTGTAATAAATGTAAATATGTACACAAGTG

2228/2825
FIGURE 1963

MVAGSDAGRALGVLSVVCLLHCFGFISCF SQQIYGVVYGNVTFHVPSNVPLKEVLWKKQKDKVAELENSEFRAFS
SFKNRVYLDTVSGSLTIYNLTSSDEDEYEMESPNITDTMKFFLYVLESLPSPTLTALTNCSIEVQCMIP EHYNS
HRGLIMYSWDCPMEQCKRNSTSIYFKMENDLPQKIQCTLSNPLFNTTSSIILTT CIPSSGHSRHR YALIP IPLAV
ITTCIVLYMNGILKCDRKPDR TNSN

2229/2825
FIGURE 1964A

GTTGCTGTCTGGAGAGAGAAAAGCCGCACCCGAGAGGAGGTGTGGGTGTTCCGCTTCCATCCTAACGGAAACGAGCTC
CCTCTTCGCGGACATGGGATTACCCAGCGGCTGCTAACCCCTCTCCTCGCCCTGCTCCCCAAACCGGCGTGGCT
CCCCGGGCACCAAGGAGCTGACTACAGAGGAGCAGGATTTGCACCCCTCGCTGGGCTTGCTTTGGCAACAGAGTG
CCTGACCCAGGTCAGGATTTTCAAGAAAGACATGTCTGACAAAATGTCTAGCTTCCCTACATATTGGAGACATTTG
TTCTCTGTACGCGGAGGGATCGACAAATGGATTTATTAGCACCTTGGGCCTGGTTGATGATCGTTGTGTGTGTACA
GCCAGAAACCGGGGACCTTAACAATCCACCTAAGAAATTCAGAGACTGCCTCTTTAAGCTATGTCCCATGAACCG
CTACTCTGCCAAAAGCAGTTCTGGAAAGCCGCTAAGCCTGGGGCCAACAGCACCACAGACGCAGTGCTACTCAA
CAAAGTGCACCACGCTGCAGACTTGGAAAAGAAGCAGAATGAGACAGAAAACAGGAAATTGCTGGGGACCGTAAT
CCAGTATGGCAATGTGATCCAGCTCCTGCATTTGAAAAGTAATAAATACCTAACAGTGAATAAGAGGCTTCCTGC
TCTGTTGGAGAAGAATGCCATGAGAGTCACATTGGACGAGGCTGGAAATGAAGGGTCTGTTTTATATTACAGCC
ATTCTACAAGCTGCGATCCATTGGAGACAGCGTGGTCATAGGTGACAAGGTGGTTCTGAACCCCGTCAATGCTGG
TCAGCCCTACATGCTAGCAGCCATCAACTGGTAGATAACCCAGGCTGCAATGAGGTCAATTCCGTCAACTGCAA
TACAAGCTGGAAAATAGTCCTTTTCATGAAATGGAGTGATAACAAAGACGACATATTAAAGGGGGGTGACGTGGT
GAGGCTGTTTCATGCTGAGCAGGAGAAGTTTCTCACCTGTGACGAACACAGGAAGAAGCAGCACGTCTTCCTGAG
AACCACGGGCCGGCAGTCGGCCACATCTGCCACCAGTTCAAAAAGCCCTGTGGGAGGTGGAGGTGGTCCAGCATGA
CCCATGTCTGGGGCGGAGCAGGGTATTGGAACAGCCTTTTCCGTTTCAAGCATCTGGCCACGGGGCATTACTTGGC
AGCAGAGGTGGACCCTGATCAGGACGCCTCTCGAAGTAGGTTGCGGAATGCCCAAGAAAAGATGGTATACTCCCT
GGTCTCTGTGCCTGAAGGCAATGACATCTCCTCCATTTTCGAGCTAGATCCCACCCTCTGCGTGGAGGTGACAG
CCTTGTTCCCAAGGAACTCTTATGTTTCGGCTCAGACACCTATGTACTAATACCTGGGTTTACAGCACAAAATATTCC
TATTGACAAGGAAGAAGAAAAGCCCGTGATGCTGAAAATTGGCACCTCTCCTGTGAAGGAGGATAAGGAAGCATT
TGCCATAGTTCCGTTTTCTCCTGCTGAAGTTTCGGGACCTGGACTTTGCCAATGATGCCAGCAAGGTGCTGGGCTC
CATTGCTGGGAAGCTAGAGAAGGGCACCATCACCCAGAATGAAAGGAGGTCTGTAACCAAGCTGCTAGAAGATTT
GGTTTACTTTCGTCACTGGTGGAACTAATTCTGGTCAAGATGTTCTCGAAGTTGTCTTCTCCAAGCCCAACAGAGA
ACGGCAGAAACTGATGAGAGAACAGAATATTCTCAAGCAGATCTTCAAGTTGTTACAAGCCCCATTACAGACTG
CGGTGATGGCCCAATGCTTCGGCTGGAAGAGCTCGGGGACCAGCGGCACGCTCCTTTCAGACACATCTGCCGGCT
CTGCTACAGGGTGTCTGAGACACTCGCAGCAAGACTACAGGAAGAACCAGGAGTATATAGCCAAGCAGTTTGGCTT
CATGCAGAAGCAGATTGGCTATGATGTGTGTGGCTGAAGACACTATCACTGCCCTGCTCCACAATAATCGGAACT
CCTGGAAAAACACATTACCGCGGCAGAGATTGACACATTTGTGAGCCTGGTGCAGAAAGAACAGGGAGCCCAGATT
CTTAGATTACCTCTCCGACCTCTGTGTCTCCATGAACAAATCAATTCCAGTGACCCAGGAACTGATATGTAAAGC
TGTGCTGAACCCACCAACGCTGACATCCTGATTGAGACCAAATTGGTTCTTTCTCGTTTTGAATTTGAAGGTGT
CTCTTCCACTGGAGAGAATGCTCTGGAGGCAGGAGAAGACGAGGAAGAGGTGTGGCTGTTTTGGAGGGACAGCAA
CAAAGAGATTTCGAGCAAGAGTGTGAGGGAATTGGCTCAGGATGCTAAAGAAGGGCAGAAGGAGGACCGAGACGT
TCTCAGCTACTACAGATATCAGCTGAACCTCTTTGCGAGGATGTGTCTGGACCGCCAATACCTGGCCATCAACGA
AATCTCAGGCCAGCTGGATGTGATCTCATTCTCCGCTGCATGTCTGACGAGAACCTGCCCTATGACCTCAGGGC
GTCCTTCTGCCGCTCATGCTTACATGCATGTGGACCGAGATCCCCAGGAACAAGTACCCCCGTGAAAATATGC
CCGCCTCTGGTCTGGAGATTCCCTCGGAGATCGCCATTGACGACTATGATAGTAGTGGAGCTTCCAAAGATGAAAAT
TAAGGAGAGATTTGCTCAGACCATGGAGTTTGTGGAGGAGTATTTAAGAGATGTGGTTTGTGAGAGGTTCCCTTT
CTCTGATAAAGAGAAGAATAAGCTTACGTTTGGAGTTGTAAATTTAGCTAGGAATCTCATATACTTTGGTTTTCTA
CAACTTCTCTGACCTTCTCCGATTAACTAAGATCCTTCTGGCCATATTGGACTGTGTACATGTGACAACAATCTT
CCCCATTAGCAAGATGGCGAAAGGAGAAGAGAATAAAGGCAGTAACGTGATGAGATCTATTTCATGGCGTGGGAGA
GCTGATGACCCAGGTGGTGTCTCCGGGGAGGAGGCTTTTTGCCCATGACTCCCATGGCTGCTGCCCCCTGAAGGCAA
TGTGAAGCAGGCAGAGCCTGAGAAGGAGGACATCATGGTTCATGGACACCAAGCTGAAGATCATTGAGATACTCCA
GTTTTATTTTGAATGTGAGGTTGGATTATAGGATCTCCTGCCTCCTGTGTATATTTAAGCGAGAGTTTGATGAAAG
CAATTCCCAGACTTCAGAAACATCTCCGGAACAGCAGCCAAGAAGGGCCAAGTAATGTACCAGGTGCTCTTGA
CTTTGAACACATTGAAGAACAAGCAGAAGGCATCTTTGGAGGAAGTGAGGAGAACACCCCACTGGACTTGGATGA
CCACGGCGGCAGAACCTTTCTCCGTGTCTGCTCCACTTGACGATGCATGACTACCCACCCCTGGTGTGAGGGGC
CCTGCAGCTCCTCTCCGGCACTTCAGCCAGAGGCAGGAGGTGCTCCAGGCCTTCAAACAGGTTCAACTGCTGGT
TACCAGCCAAGATGTGGACAACCTACAAACAGATCAAACAAGACTTGGATCAACTGAGGTCCATCGTGGAAAAGTC

2230/2825
FIGURE 1964B

AGAGCTTTGGGTGTACAAAGGGCAGGGCCCCGATGAGACTATGGATGGTGCATCTGGAGAAAATGAACATAAGAA
AACGGAGGAGGGGAAATAACAAGCCACAAAAGCATGAAAGCACCAGCAGCTACAACCTACAGAGTGGTCAAAGAGAT
TTTGATTTCGGCTTAGCAAACCTCTGTGTTCAAGAGAGTGCCTCAGTGAGAAAGAGCAGGAAGCAGCAACAGCGTCT
GCTCCGGAACATGGGCGCGCACGCCGTGGTGTGCTGGAGCTGCTGCAGATTCCCTATGAGAAGGCCGAAGATACCAA
GATGCAAGAGATAATGAGGTTGGCTCATGAATTTTGCAGAATTTCTGCGCAGGCAACCAGCAGAATCAAGCTTT
GCTACATAAACACATAAACCTGTTTCTCAACCCAGGGATCCTGGAGGCAGTAACCATGCAGCACATCTTCATGAA
CAATTTCCAGCTTTGCAGTGAGATCAACGAGAGAGTGTTCAGCACTTCGTTCACTGCATAGAGACTCACGGTCG
GAATGTCCAGTATATAAAGTTCTTACAGACAATTGTCAAGGCAGAAGGGAAATTTATTAATAAATGCCAAGACAT
GGTTATGGCCGAGCTGGTCAATTCGGGAGAGGATGTCTCGTGTCTTACAACGACAGAGCCTCTTCCAGACTCT
GATCCAGATGATGCGGTGAGAAGGGATCGGATGGATGAGAAGAGCCCTCTCATGTACCACATCCACTTGGTCGA
GCTCCTGGCTGTGTGCACGGAGGGTAAGAATGTCTACACAGAGATCAAGTGAACCTCCCTGCTCCCGCTGGATGA
CATCGTTTCGCGTGGTGACCCACGAGGACTGCATCCCTGAGGTTAAAATTGCATACATTAACCTTCTGAATCACTG
CTATGTGGATACAGAGGTGGAATGAAGGAGATTTATACCAGCAATCACATGTGGAAATTGTTTGAGAATTTCTCT
TGTAAGACATCTGCAGGGCCTGTAAACAACACTAGTGACAGGAAACATGCAGACTCGATTTTGGAGAAGTATGTCAC
CGAAATCGTCATGAGTATTGTTACTACTTTCTTCAGCTCTCCCTTCTCAGACCAGAGTACGACTTTGCAGACTCG
CCAGCCTGTCTTTGTGCAACTGCTGCAAGGCGTGTTCAGGGTTTACCCTGCAACTGGTTAATGCCAAGCCAAAA
AGCCTCCGTGGAGAGCTGTATTGCGGTGCTGTCTGATGTAGCCAAGAGCCGGGCCATTGCCATTCCCGTGGACCT
GGACAGCCAAGTCAACAACCTCTTTCTCAAGTCCCACAGCATTGTGCAGAAAACAGCCATGAAGTGGCGGCTCTC
AGCCCGCAATGCCGCACGCAGGGACTCTGTTCTGGCAGCTTCCAGAGACTACCGGAATATCATTGAGAGATTGCA
GGACATCGTCTCCGCGCTGGAGGACCGTCTCAGGCCCCCTGGTGCAGGCAGAGTTATCTGTGCTCGTGGATGTTCT
CCACAGACCCGAGCTGCTTTTCCAGAGAACACAGACGCCAGAAGGAAATGTGAAAGTGGCGGTTTTCATTTGCAA
GTTAATAAAGCATAACAAACAGCTGCTAGAAGAAAATGAAGAGAAGCTCTGCATTAAGGTCTTACAGACCCCTGAG
GGAAATGATGACCAAAGATAGAGGCTATGGAGAAAAGGGTGAGGCGCTCAGGCAAGTTCTGGTCAACCGTTACTA
TGGAACCGTCAGACCTTCGGGACGAAGAGAGAGCCCTTACCAGCTTTGGCAATGGCCCACTGTCTAGCAGGAGGACC
CGGCAAGCCCCGGGGAGGAGGGGGAGGTTCCGGATCCAGCTCTATGAGCAGGGGTGAGATGAGTCTGGCCGAGGT
TCAGTGTACCTTGACAAGGAGGGGGCTTCCAATCTAGTTATCGACCTCATCATGAACGCATCCAGTGACCGAGT
GTTCCATGAAAGCATTCTCCTGGCCATTGGCCCTTCTGGAAGGAGGCAACACCACCATCCAGCACTCCTTTTTCTG
TCGCTTGACAGAAGATAAGAAGTCAGAGAAATCTTTAAGGTGTTTATGACCGGATGAAGGTGGCCCAAGCAAGA
AATCAAAGCAACAGTGACAGTGAACACCAGTGACTTGGGAAATAAAAAGAAAGACGATGAGGTAGACAGGGATGC
CCCATCACGGAAGAAAGCTAAAGAGCCCAACACAGATAACAGAAGAGGTCCGGGATCAGCTCCTGGAGGCCTC
CGCTGCCACCAGGAAAGCCTTCACCACTTTCAGGAGGGAGGCTGATCCCGACGACCACTACCAGCCTGGAGAGGG
CACCCAGGCCACTGCCGACAAGGCCAAGGACGACCTGGAGATGAGCGCGGTATCACCATCATGCAGCCCATCCT
CCGCTTCCTTCAGCTCCTGTGTGAAAACCACAACCGAGACCTGCAGAACTTCCCTCGTTGCCAAAATAACAAGAC
CAACTACAATTTGGTATGTGAGACCCGTCAGTTTCTGGACTGTATTTGTGGAGCACAACCTGGAGGCCTTGGTCT
TCTGGGCTTGTATATAAATGAAAAGAAGCTAGCGCTTATCAACCAAAACCTGGAAAGTCTGACCGAATACTGTCA
AGGACCTTGCCATGAGAACCAAGAACTGCATAGCCACCCATGAATCCAATGGCATTGACATCATCACAGCCCTGAT
CCTCAATGATATCAATCCTTTGGGAAAGAAGAGGATGGACCTTGTGTTAGAACTGAAGAACAATGCCTCGAAGTT
GCTCCTGGCCATCATGGAAAGCAGGCACGACAGTGAAGACGCAGAGAGGATACTTTATAACATGAGGCCCAAGGA
ACTGGTGGAAAGTGATCAAGAAAGCCTACATGCAAGGTGAAGTGAATTTGAGGATGGAGAAAACGGTGAGGATGG
GGCGGCGTCCCCCAGGAACGTGGGGCACAACATCTACATATTAGCCCATCAGTTGGCTCGGCATAACAAAGAACT
TCAGAGCATGCTGAAACCTGGTGGCCAAGTGGACGGAGATGAAGCCCTGGAGTTTATGCCAAGCACACGGCGCA
GATAGAGATTGTGAGATTAGACCGAACAATGGAACAGATAGTCTTTCCCGTGCCAGCATATGTGAATTCCTAAC
CAAGGAGTCAAACTACGAATTTACTATACAGAGAGAGACGAACAAGGCAGCAAAATCAATGATTTCTTTCT
GCGGTCTGAAGACCTCTTCAATGAAATGAATTGGCAGAAGAACTGAGAGCCCAGCCCGTGTGTACTGGTGTGC
CCGCAACATGTCTTTCTGGAGCAGCATTTCGTTTAACTTGGCCGTCTGATGAACCTGCTGGTGGCGTTTTTCTA
CCCGTTTAAAGGGAGTCCGAGGAGGAACCCTGGAGCCCCACTGGTCGGGACTCCTGTGGACAGCCATGCTCATCTC
TCTGGCCATCGTCATTGCCCTCCCCAAGCCCCATGGCATCCGGGCCTTAATTGCCTCCACAATTCTACGACTGAT
ATTTTCAGTCGGGTTACAACCCACGTTGTTTCTTCTGGGCGTTTTCAATGTATGCAATAAAATCATCTTTCTAAT

2231/2825
FIGURE 1964C

GAGCTTTGTGGGCAACTGTGGGACATTACAAAGAGGCTACCGAGCCATGGTTCTGGATGTTGAGTTCTCTATCA
TTTGTGTATCTGGTGATCTGTGCCATGGGGCTCTTTGTCCATGAATTCTTCTACAGTCTGCTGCTTTTTGATTT
AGTGTACAGAGAAGAGACTTTTGCTTAATGTCATTAAAAAGTGTCACTCGCAATGGACGGTCCATCATCCTGACAGC
AGTTCTGGCTCTGATCCTCGTTTACCTGTTCTCAATAGTGGGCTATCTTTTCTTCAAGGATGACTTTATCTTGGA
AGTAGATAGGCTGCCCAATGAAACAGCTGTTCCAGAAACCGGCGAGAGTTTGGCAAGCGAGTTCCCTGTTCTCCGA
TGTGTGTAGGGTGGAGAGTGGGGAGAAGTGTCTCTCTCCTGCACCCAGAGAAGAGCTGGTCCCTGCAGAAGAGAC
GGAACAGGATAAAGAGCACACATGTGAGACGCTGCTGATGTGCATTGTACCGTGTGAGTCACGGGCTGCGGAG
CGGGGGTGGAGTAGGAGATGTACTCAGGAAACCGTCCAAAGAGGAACCCCTGTTTGCTGCTAGAGTTATTTATGA
CCTCTTGTTCTTCTTTCATGGTCATCATCATTGTTCTTAACCTGATTTTTGGGGTTATCATTGACACTTTTGCTGA
CCTGAGGAGTGAGAAGCAGAAGAAGGAAGAGATCTTGAAGACCACGTGCTTTATCTGTGGCTTGAAAGAGACAA
GTTTGACAACAAGACTGTCACCTTTGAAGAGCACATCAAGGAAGAACAACATGTGGCACTATCTGTGCTTCAT
CGTCCTGGTGAAAGTAAAGGACTCCACCGAATATACTGGGCCCTGAGAGTTACGTGGCAGAAATGATCAAGGAAAG
AAACCTTGACTGGTTCCCCAGGATGAGAGCCATGTCATTGGTCAGCAGTGATTCTGAAGGAGAACAGAATGAGCT
GAGAAACCTGCAGGAGAAGCTGGAGTCCACCATGAAACTTGTACGAACCTTTCTGGCCAGCTGTGCGAATTAAA
GGATCAGATGACAGAACAAGGAAGCAGAAACAAAGAATTGGTCTTCTAGGACATCCTCCTCACATGAATGTCAA
CCCACAACAACCAGCATAAGCAAATGAAAGAAAAGGAATTGTATTTACCTTTTATAATTATTATTAGTGTGGGTAT
GGCTAATGAGTTCTGATTACCCACGAAGGTTACATTTATGCTGAATACATTTGTAAATACTCAGTTTTATACTG
TATGTATATGATTGCTACTCTAAAGGTTTGGATATATGTATTGTAATTAGAATTGTTGGCATGATGACATTTTCAT
TTGTGCCAAAAATATTAATAATGCCTTTTTTGGAAAGGACTAACAGAAAGCACCTGATTTGCACTTGAACCAGATT
ATAGATTTAAAAGTATATGACATGTATTTTGTATTTAAAAGTAAAGTATAGCCAGTATTTATGTTTTTTATAAACT
GTGCAATACGAATTATGCAATCACAAATACATTTGTAGCTCCCGAGTGTCTTAAAGGGAGTGCACCTTCTTTGAAGC
TGGTGTGTTAATACTATGTAATAAATGGTTAACTTTCAAATGATGCTGCTGCCAAAATTATATTAATAGTGAGTT
TCAGGCCCCCTGGGCATTTTGTACCATGTAATTATCCTCTGGTGATGCTGTTTCTCGTTAGTGGCAGTAGTGCCTC
CGTCTCCTAGTGATAATGCTCCAAGTCTATGAAGTGTAAATCAGCATTCAATTTAAGAAAAGCAACTTTAGTTT
CAAAGATACTTTTAAGCTTCTAAATTGATCATTTAACTATTTCTTTAAATAAGAGAGCCAAATTAGAGGCTCAT
ACTTTAGCTTGTGAAGAAGATAATGAATTTTTTAAAGGGAACCTTTCTATGCAATGTTTCAAGGATAAATCGATACTG
CTGGCCAATCAGTGTCTCTCCTGGGTAAATTTTGTATGTCGCATTATAAAGACATGCATAATTGATGGTTTCTAG
ATTATCTAGTCCAAACAATAGAGTTTATTTTTCTTCATCTGAACCAACATGCTACAGTAGCTAAGAAGTATTAA
AACTATATACATCCATATAAAGATGAAATATGAAGTATCTCATTAGAAGTCATAGTTGACCACAGACATGTTATT
CTTCTGAAAGAGCCACATTTTGGTTTTATTTCTTGTACATGATTTCTTTCTTGATGGATGAAAAATATGAAAT
GAAATCTTTTATATCTGTTGCCTAGTTTGTACATGGATCTCATTTTACAAGAGAATCTCTCTGCTA

2232/2825
FIGURE 1965

MSDKMSSFLHIGDICSLYAEGSTNGFI STLGLVDDRCVVPETGDLNNPPKKFRDCLFKLCPMNRYSAQKQFWKA
AKPGANSTTDAVLLNKLHHAADLEKKQNETENRKLLGTVIQYGNVIQLLHLKSNKYLTVNKRLPALLEKNAMRVT
LDEAGNEGSWFYIQPFYKLSIGDSVVIGDKVVLNPVNAGQPLHASSHQLVDNPGCNEVNSVNCNTSWKIVLFMK
WSDNKDDILKGGDVVRLFHAEQEKFLTCDEHRKKQHVFRLRTTGRQSATSATSSKALWEVEVVQHDP CRGGAGYWN
SLFRFKHLATGHYLA AEVDPDQDASRSRLRNAQEKMVYSLVSVPEGNDISSIFELDPTTLRGGDSLVP RNSYVRL
RHLCTNTWVHSTNIPIDKEEEKPVMLKIGTSPVKEDKEAFAIVPVSPA EVRDLDFANDASKVLGSIAGKLEKGTI
TQNERRSVTKLLEDLVYFVTGGTNSGQDVLEVVF SKPNRERQKLMREQNILKQIFKLLQAPFTDCGDGPMLRLEE
LGDQRHAPFRHICRLCYRVL RHSQQDYRKNOEYIAKQFGFMQKQIGYDVLAEDTITALLHNNRKLEKHITAAEI
DTFVSLVRKNREPRFLDYLS DLCVSMNKSIPVTQELICKAVLNPTNADIL IETKLVLSRFEFEGVSSTGENALEA
GEDEEEVWLFWRDSNKEIRSKSVRELAQDAKEGQKEDRDVLSYYRYQLNLFARMCLDRQYLAINEISGQLDVDLI
LRCMSDENLPYDLRASFCRLMLMHVDRDPQEQVTPVKYARLWSEIPSEIAIDDYDSSGASKDEIKERFAQTMEF
VEEYLRDVVCQRFPFSDKEKNKLTFEVVNLARNLIYFGFYNSDLLRLTKILLAILDCVHVTTIFFISKMAKGEE
NKGSNVMRSIHGVGELMTQVVLRGGGFLPMTPMAAAPEGNVKQAEPEKEDIMVMDTKLKIIEILQFILNVRLDYR
ISCLLCIFKREFDESNSQTSETSSGNSSQEGPSNVPGALDFEHIEEQAEGIFGGSEENTPLDLDDHGGRTFLRVL
LHLTMHDYPPLVSGALQLLFRHFSQRQEV LQAFKQVQLLVTSQDVDNYKQIKQDLDQLRSIVEKSELWVYKGQGP
DETMDGASGENEHKKTEEGNNKPQKHESTSSYNYRVVKEILIRLSKLCVQESASVRKSRKQQQRLLRNMGAHAVV
LELLQIPYEKAEDTKMQEIMRLAHEFLQNF CAGNQQNQALLHKHINLFLNPGILEAVTMQHIFMNNFQLCSEINE
RVVQHFVHCIE THGRNVQYIKFLQTI VKAEGKF IKKCQDMVMAELVNSGEDVLV FYNDRASFQTLIQMMR SERDR
MDENSPLMYHIHLVELLAVCTEGKNVYTEIKCNSLLPLDDIVRVVTHEDCIPEVKIAYINFLNHCYVDTEVEMKE
IYTSNHMWKLFENFLVDICRACNNTSDRKHADSI LEKYVTEIVMSIVTTFFSSPFSQSTTLQTRQPVFVQLLQG
VFRVYHCNWLMP SQKASVESCIRVLSDVAKSRAIAIPVDLDSQVNNLFLKSHSIVQKTAMNWRLSARNAARRDSV
LAASRDYRNIIERLQDIVSALEDRLRPLVQAE LSVLVDVLHRPELLFPENTDARRKCESGGFICKLIKHTKQ LLE
ENEEKLCIKVLQTLREMMTKDRGYGEKGEALRQVLVNRYYGNVRPSGRRESLTSFGNGPLSAGGPGKPGGGGGGS
GSSSMSRGEMSLAEVQCHLDKEGASNLVIDLIMNASSDRVFHESILLAI ALLEGNTTIQHSFFCRLTEDKKSEK
FFKV FYDRMKVAQQEIKATVTVNTSDLG NKKKDDEVDRDAPSRKKAKEPTTQITEEV RDQLLEASAATRKAFTTF
RREADPD DDHYQPGEGTQATADKAKDDLEMSAVITIMQPILRFLQLLCENHN RD LQNF LRCQNNKTNYNLVCETLQ
FLDCICGSTTGGLGLGLYINEKNVALINQ TLES LTEYCQGPCHENQNCI

2233/2825
FIGURE 1966

GCGGCCGCCTCCTCTTCGGGGTCATTAAAGCCAATGAGCCGCGCGCCTCTGCCGAGCGCAGCCAACTAAATCGGC
TTGGATGATTTCGCGACCTGAGCAAGATGTACCCGCAGACCAGACACCCGGCACCGCATCAGCCTGCTCAACCCTT
TAAATTTACAATTTCCGAATCCTGTGATCGGATTAAGGAAGAGTTTCAGTTTTTACAGGCTCAATACCACAGTCT
GAAGCTGGAATGTGAGAACTCGCCAGTGAGAAGACAGAGATGCAGCGGCATTATGTCATGTATTATGAAATGTC
CTATGGGTGGAATATAGAAATGCACAAGCAGGCAGAGATTGTCAAGAGGCTGAATGCTATCTGTGCACAAGTCAT
TCCTTTCTGTCCCAAGAGCACCAGCAACAAGTGGTGCAGGCTGTGGAACGGGCCAAGCAGGTGACCATGGCAGA
ACTGAACGCCATCATTGGGCAACAACCTCCAGGCCCAGCATTATCACATGGACATGGTCTCCCCGTACCTCTGAC
TCCACACCCTTCAGGGCTCCAGCCCCCTGCCATTCCACCCATCGGTAGCAGTGCCGGGCTTCTGGCCCTCTCCAG
TGCTCTAGGAGGTGAGTCCCATCTTCCAATTAAAGATGAGAAGAAGCACCATGACAATGATCACCAAAGAGACAG
AGACTCCATCAAGAGCTCTTCAGTATCCCCATCAGCCAGTTTCCGAGGTGCTGAGAAGCACAGAACTCCGCAGA
CTACTCCTCAGAGAGCAAAAAGCAGAAAACCTGAAGAAAAGGAAATTGCAGCTCGTTATGACAGCGATGGTGAGAA
AAGTGATGACAACTTGGTGGTTGACGTTTCCAATGAGGATCCATCTTCCCCTCGAGGGAGCCAGCACATTCCCC
CAGAGAGAATGGCCTAGACAAGACACGCCTGCTCAAGAAAAGATGCCCGATTAGTCCAGCCTCTATTGCATCTTC
CAGCAGTACTCCCTCCTCCAAATCCAAAGAACTTAGCCTTAATGAAAAATCTACTACTCCCGTCTCAAAGTCCAA
TACCCCTACTCCACGAACCTGATGCGCCACCCCAAGGCAGTAACCTACTCCCGGATTGAGGCCTGTACCTGGAAA
ACCACCAGGAGTTGACCCTTTGGCCTCAAGCCTAAGGACCCCAATGGCAGTACCTTGTCCATATCCAACTCCATT
TGGGATTGTGCCCCATGCTGGAATGAACGGAGAGCTGACCAGCCCCGGAGCGGCCTACGCTGGGCTCCACAACAT
CTCCCCCTCAGATGAGCGCAGCTGCTGCCGCCGCCGCTGCTGCTGCTGCCTATGGGAGATCACCAGTGGTGGGATT
TGATCCACACCATCACATGCGTGTGCCAGCAATACCTCCAAACCTGACAGGCATTCCAGGAGGAAAAACCAGCATA
CTCCTTCCATGTTAGCGCAGATGGTTCAGATGCAGCCTGTCCCTTTTCCACCCGACGCCCTCATCGGACCTGGAAT
CCCCCGGCATGCTCGCCAGATCAACACCCTCAACCACGGGGAGGTGGTGTGCGCGGTGACCATCAGCAACCCAC
GAGACACGTGTACACGGGTGGGAAGGGCTGCGTCAAGGTCTGGGACATCAGCCACCCAGGCAATAAGAGTCCTGT
CTCCCAGCTCGACTGTCTGAACAGGGATAACTACATCCGTTTCTGTCAGATTGCTCCCTGATGGTTCGCACCCTAAT
TGTTGGAGGGGAAGCCAGTACTTTGTCCATTTGGGACCTGGCGGCTCCAACCCACGCATCAAGGCAGAGCTGAC
ATCCTCGGCCCCCGCCTGCTATGCCCTGGCCATCAGCCCCGATTCCAAGGTCTGCTTCTCATGCTGCAGCGACGG
CAACATCGCTGTGTGGGATCTGCACAACCAGACCTTGGTGAGGCAATTCCAGGGCCACACAGATGGAGCCAGCTG
TATTGACATTTCTAATGATGGCACCAGCTCTGGACAGGTGGTTTGGACAACACGGTCAGGTCTGGGACCTGCG
CGAGGGGCGGCAGCTGCAGCAGCACGACTTCACCTCCAGATCTTTTCTCTGGGCTACTGCCCAACTGGAGAGTG
GCTTGCACTGGGGATGGAGAACAGCAATGTGGAAGTTTGCATGTACCAAGCCAGACAAATACCAACTACATCT
TCATGAGAGCTGTGTGCTGTGCTCAAGTTTGGCCATTGTGGCAAATGGTTTGTAAAGCACTGGAAAGGACAACCT
TCTGAATGCCTGGAGAACACCTTATGGGGCCAGTATATTCCAGTCCAAAGAATCCTCATCGGTGCTTAGCTGTGA
CATCTCCGTGGACGACAAATACATTGTCACTGGCTCTGGGGATAAGAAGGCCACAGTTTATGAAGTTATTTATTA
AAGACAAATCTTCATGCAGACTGGACTTCTCCTCCTGGTAGCACTTTGCTCTGTCTATCCTTTTTGTTCACCCCA
TCCCCGCATCTAAAACCAAGGATTTAGATACTCATTCAGTTGTGGAGTTTAAATCCCCTTTCTTAACCTCACTT
CCCCTTGCTATTGAATTGTGAATAGTCATTAATAAACCCTGTGATACCAATCTTCAGCTGTCTACTTGGGAAGAAC
ATGGAATAAGCATACTTAACAGTGAAAAGAATCTTTAATTATGTATTATATCTGTAATATATTTATTTTGTTTAA
AGAAGGCTTTCTAACAATGACTGACTAAATAAAGCTGTCTGCTCCTGCATTGAT

2234/2825
FIGURE 1967

AARLCRAQPTKSAWMIRDLSKMYPQTRHPAPHQPAQPFKFTISESCDRIKEEFQFLQAQYHSLKLECEKLASEKT
EMQRHYVMMYEMSYGLNIEMHKQAEIVKRLNAICAQVIPFLSQEHQQQVVQAVERAKQVTMAELNAIIIGQQLQAQ
HLSHGHGLPVPLTPHPISGLQPPAIPPIGSSAGLLALSSALGGQSHLP IKDEKKHHDNDHQDRDRDSIKSSSVSPSA
SFRGAEKHRNSADYSSSESKKQKTEEKEIAARYDSGGEKSDDNLVVDVSNEDPSSPRGSPAHSPRENGLDKTRLLK
KDAPISPAIASSSSTPSSKSKELSLNEKSTTPVSKSNTPTPRTDAPTPGSNSTPGLRPVPGKPPGVDPLASSLR
TPMAVPCPYPTPFPGIVPHAGMNGELTSPGAAYAGLHNISPQMSAAAAAAAAAAAAAYGRSPVVGFDPHHHMRVPAIP
PNLTGIPGGKPAYSFHVSADGQMOPVFPFPPDALIGPGIPRHARQINTLNHGEVVCVAVTISNPTRHVYTGKGKCVK
VWDISHPGNKSPVSQLDCLNRDNYIRSCRLLPDGRTLIVGGEASTLSIWDLAAPTTPRIKAELTSSAPACYALAI
PDSKVCFSCCSDGNIAVWDLHNQTLVRQFQGHTDGASCIDISNDGTLWTGGLDNTVRSWDLREGRQLQOHDFTS
QIFSLGYCPTGEWLAVGMENSNEVLHVTKPDKYQLHLHESCVLSLKFACGKWFVSTGKDNLLNAWRTPYGASI
FQSKESSSVLSCDISVDDKYIVTGSGDKKATVYEVIY

2235/2825
FIGURE 1968A

GCCGGAAGCTGGCGTACTCCGGCAGCGAAAAGCGGTGCAGACGGGAGGAAGGCAGCTGAGCCTGAGGTGGAGGTGG
AGGTGTACCGGCGGGACTCCAAGAAGCTGCCAGGCCTGGGAGACCCTGACATCGACTGGGAGGAGAGCGTCTGCC
TGAATCTCATCCTGCAGAAGCTGGACTACATGGTGACCTGTGCGGTGTGCACACGTGCTGACGGCGGGGACATTC
ACATCCATAAGAAGAAATCTCAGCAAGTGTTGCGCTCCCCAGTAAACACCCCATGGACAGCAAGGGGGGAGGAGT
CCAAGATCAGCTACCCCAACATCTTCTTCATGATTGACAGCTTCGAGGAGGTGTTTCAGCGACATGACCGTAGGGG
AAGGAGAGATGGTCTGTGTGGAGCTGGTGGCTAGTGACAAAACCAACACGTTCCAGGGGGTCATCTTTCAGGGCT
CCATCCGCTACGAGGCGCTCAAGAAGGTGTATGACAACCGGTGAGCGTGCCCGCCCGCATGGCACAGAAGATGT
CGTTTGGCTTCTACAAGTACAGCAACATGGAGTTTGTGCGCATGAAGGGCCCCCAGGGCAAGGGCCACGCCGAGA
TGGCGGTGAGCCGAGTGTCTACAGGTGACACATCCCCCTGTGGGACTGAAGAGGACTCCAGCCCAGCTTCGCCCCA
TGCACGAGCGGGTGACCTCCTTCAGCACACCCCCCAGCCAGAACGGAACAACCGGCCTGCCTTCTTCTCCCCAT
CCCTCAAGAGGAAGGTGCCCCGGAACCGGATCGCTGAGATGAAGAAGTCGCACTCGGCCAACGACAGCGAGGAGT
TCTTCCGGGAGGACGACGGTGGAGCCGATCTGCACAATGCAACCAACCTGCGGTCTCGGTCCCTGTGCGGCACAG
GACGGTCCCTGGTTCGGGTCTGGCTGAAGCTGAACAGAGCAGATGGAACTTCTTCTATGCACACTTAACT
ACGTCACGTTGCCGCTGCATCGGATTTTAAACAGACATCCTGGAAGTTCGGCAGAAGCCCATCCTGATGACCTAGC
CGCGTGCGGAGCCTGCGCAGAGCCCCGGCCGGGCCAGCCCTCGGAGTGCTGCCAAGTGCTACCTGTCCACCGC
CACCGGGTCTGCGATGGCACGCCAGTGCTGGAGCCGCAGCCAGGCGAGGCCACTCGACTCCCGGGGCCGGGGCC
GACTCCACGAACACCAGCCCAAAGTGAAGTGCTTCTCCCTCCCTGTGGCGCTGCTCCGCCCTGTGCCCCCG
CCCATCGCCCCCACCATCTCTGGAGAGCCCTCTGCACCCAAAGAGGACTAGAGATGCCGAGCGGCCATGAGAG
AGAGCGGAAGGAGCAGCTGATGCCAGAGCGGGGCCAGAGCGCGGGTCTATGTTTCAGTCCCCCAGCAGCAGG
CGGAACCACCAGCCAGGGCACTCAGTGCAATTGGACTGTCCACATGTTCTTGAGGAAAGCCGGTGGAAGATTCTG
GAATGCCGTGCGGATGAACCTTCAGCGCCCGAGTCAGTCCCAGCTCATCCTCCCCAGTTTACCCTTTGTTCTAAT
AGGAGATGGGAACACGAGAAGTTTGATGGCTTTGCCCTGGGCTGGGAATACCTCACCCACGCCCAGTTCCAGAAA
GGCCTCCAGCTGAGCAGACGGCCCCGATCCCCGCCAGAACGGCCTTTTGCTTCCAGCCAAAGAACACCGCCAACAC
GCACACCTCCAACCTGGGACATCCCACGCTGGGCCTCGCACGGAGGAACCTGCAGAATTTGGATTCTGAGGGTAG
TCGGGAGGCCTCGGTAGCCAGGCAGAACAGGATATCTGCCAAAGGGTGTCTGATGTGGGGTGGGGCTGGCATCCT
CCCAGGAAGGTTCTAGGTGGGACCCCGTCTTCTGGGGGCGGGGTGTCTTTTCATCTTCCCTGGTTTCTTAGAAC
TCACTTCTTTGACGGCGTGTGTTGGTCCCATCTCTCAGACCAGCTCACTGAGGCAGAGGAGTTGCTCAGAGGCT
CACATGGGCACCCCCATTGGTTTCGTGTGAGCAGCTGCCCAGCCCCAGGCCTGCCCTCGGCCTGGTCCAGCATGAA
GGCGTTTCCATCTGCAAGGATGCACGGTACCCTCCCCGAGAGCAGGCCTGTCCCCTACCCAAGTGGGAATAAAGT
GGAAGCTGGGTCTCTTTGTTGCTATGTTTTTTGTTTGAAGTTCCCAGGAATATTTGAGGGGTTCGGGTGATGTG
TTTAGGGATCTTCTCTGTGGGGGAAAAGGAAGAGGAGGGTCTTGTCTCTCCATCTGTTTATTCTTTGGGCTCTGG
GAACAGGGGACTACTTTGGGGCTTCTCCAGACTTTTGATGTTGTTATTTAAAGCGAGCTATTGCATTTCAATC
TGCTCAGTTTGCCACCTGTGAAATGGGGCTGATACCACCTACCTCACTGAAGTCCCAGGGTTCAAGTGTGTGG
CTGGGTGAGGGCGTGGTCACCCGTCACTTCTGCATAGGTGCGGTGGATGTTAGACTCCTGGGATGCCCTCCTCCC
CCCTCGCCCTTTGTAATAACCTAATCTGAGACCGTGCTTGGTGGGGGATGTGAACCTTCTCTCTCCCCCAGCAG
TGTCTGCTCAGGCCTGACAGCTCAGCTCTGCACGATTTTCATGTTCTTAAACCCATGTCTTAGGGCAGCACAGAGC
CAGGTGATGTGATGCCCCAAAGTGTGGGGACAGAGCCTCAGGGAGCCCCGAGCATGGTCCAGCCCCATTTGAGTG
CTCTCCGGGGATGCCAAATGCTGCTTCCAAGTTTGAGTCCATGTGGCTAAAATACACCCATTTCTTTCAGGAACTC
TTCCCTTGGTTGTTCTGGGGATCTTGGGAGAAACACAGCCCTGACAGCTCGTCCGTGGGAAGATGAGGCAGTCCA
GGTTGTGAGGAGCACAGCGGCCGCCCTCTGTTCTCAGAGGTGAGGGGCGGGAGAAGGTTGTCTCTCTGGGGCC
AGCATTTGGCCAAGCTCGGAGGCTTGGCCAGCACTGCTGGATGGCTCAGAGCAAGCTGGGCTCCCCGTCTGTAAG
ATGGCAAAAATGCTGCCCCCTCACAGGGTGACCATGAGGACCAGTCACAGTGATGTGTGAAAGGGCTCGCTGGT
CACAGAAAAGTGTACAAATCATGCTATTTTAGAGATCAGCCCTCAATTTGTAAGGCATGTGAACAGGGGCACGCGG
TGGGCTGGTGGTTTCATAGCCGACACACAGCGCCTACCATGTGCAGCTGCCTGTCCGACCCCATCTTACAGACGA
GAAAACCAGCACACAGGCACCAAGGAAGTGTCCGGAACCTAACAGCAGGGGCCGGCGATGGGAGTCAAACCCAGGC
ACGCGGCCCTGGCTGCATGCTGAGCCACATGGTGTGTCCGGACAGATGGACAGACACTCGGTGGAGTCTGCCTT
TCTCAGGCCCTAAATCCCTCTCCAAAGGTACTTGCGATGCCGATTTTAAACTTGCTCAGAGCCACTTAGCCAC
TTGAGAACCAGACAGTAAGGTGTTACTCCAGGTTTGTTTTCCAAAGTAACAGATGACATGTGGAATAAAGTAA

2236/2825
FIGURE 1968B

TAGAGTAACAAGTGGCAGGGCCAGAACCAGGGTCCCCAAAGTCCTGGTGTGGCACATTTGTACTTCTTGTAAGA
CCATCTTTAATTTTTCTGGGAACACACCTGCCTTTTGTGTAATGCGGGGAAGACTAATGCATGGTGACACCTGGT
TTTCCTCAACAGGACACTTGATCCCCAAAACCCCTTTAAGACCTTAGGTTTCCTCAGCGGAAAACGTGTACTTTAAT
CCCCAAACCCCTTTAAGACATATTGGGGCTGGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTG
AGATGGGTGGATCACCTGAGATCAGGAGTTCAAGACCAGCCTGACTAACATGCTGAAACCCCATGTCTACTAAAG
ATAGAAAAATTAGCCGGACATGGTGGCAGGCACCTGTAATCCCAGCTACTCGGAAGGCTGAGGAAGGAGAATCAC
TTGAACCTAGTAGGCAGAGGTTGCAGTGAGCCGAGATCACGCCATTGCATTCTAGCCTGGGCAACGAGAGCGAAA
CTCTGTCTC

2237/2825
FIGURE 1969

RKLAYSGSESGADGRKAAEPEVEVEVYRRDSKKLPGLGDPDIDWEESVCLNLILQKLDYMTCAVCTRADGGDIH
IHKKKSQQVFASPSKHPMDSKGEESKISYPNIFMIDSFEEVFSDMTVGEEMVCVELVASDKTNTFQGVIFQGS
IRYEALKKVYDNRVSVAARMAQKMSFGFYKYSNMEFVRMKGPQKGHAEMAVSRVSTGDTSPCGTEEDSSPASEM
HERVTSFSTPPTPERNNRPAFFSPSLKRKVPRNRIAEMKKSHSANDSEEFFREDDGGADLHNATNLRSLSGTG
RSLVGSWLKLNRADGNFLLYAHLTYVTLP LHRILTDILEVRQKPI LMT

2238/2825
FIGURE 1970A

ACCTCATTCCAGGAGCTCCCTCTCTGGCACCAAGCTCCCTGGGGTGAGTTTTCTTTTTGAAGAGTCCAGGAGAAC
AGGTAAGCAGTGGGGAAGCAGGGAGTCCATTTTCAGGGACAGGAATCCCGGATGAAAAGTGAAAGGAGAGGGACG
GGGCCCCAAGCTGAGGGTTTTCTTCTGGTTTTCTCGGACAGCTCCTGGACCAAGACTCAGGGAACATTGAGACAGAG
CGTTTGTACAGGAGGAGCGGGGTTCAGGGCGAAGTCCCAGAGCCCCAGGCATGGCTCTCAGGGTCTCAGGCCCCG
AAGGCGGTGCATGGGCTGGGGAGGTGCAGCATTGGGGATTCCCCATCTCCGCAGAGTTTCTCTTCTCCCTCTCCC
AGCCTGCGACGGGTCTTCTTCTTCTGGACACTCACGACGCGGACCCAGTTCTACTCCCCTGAGTGTGCGGGTTTC
TAGGGAAGCCAATCAGCGTCGCGCGGCCCGGTTCTAAAGTCCCCACGCACCACCGGGACTCGGAGTCTCCCCAG
ACGCCGACGATGGGGTCATGGCGCCCCGAACCTCCTCTGCTGCTCTCGGGACCCTGCCCTGGCCGAGACCTGG
GCGGGTGAGTGCAGGGGTTCAGGAGGGAACGGCCTCTGCCGTGAGGAGCGAAAGGTCCACCTGGCTGGGGCGCAGG
ACCCGGGGAGCCGCGCCGGGAGGAGGGTTCGGGCGGGTCTCAGCCCCCTCTCGCCCCAGGCTCCCACTCCATGAG
GTATTTTACGACCCGCCGTTTTCTTGGCCGGGCGCGGGGAGCCCAGCTTCATTGCCGTGGGCTACGTGGACGACAC
GCAGTTCGTGCGGGTCGACAGTGACGCCGTGAGTCTGAGGATGAAGACGCGGGCGCGGTGGGTGGAGCAGGAGGG
GCCGGAGTATTGGGACCTACAGACACTGGGCGCCAAGGCCCAGGCACAGACTGACCGAGTGAACCTGCGGACCCCT
GCTCCGCTACTACAACCAGAGCGAGGCGGGTGAGTGACCCCGGCCCGGGGCGCAGATCACTTACTCCCCGCTCCA
TGCTTCACGGACGGCCCTGGTCCCCTGAGTCTCCGGGTCCAAGATCGACCCCGAGGCTGCGGACCTGCAGAGATC
CTCGACCCGGGAGAGCCCCAGGCGCCTTTACCTGGTTTTCATCTTCAGTTGAGGCCAAAATCTCCGCAGGTTGCTA
GGGTCCGGGCCAGGGCTCGGTGGGCGGGGCTGACCGCGGGAACTGGGCCAGGGTATCACATCCTCCAGGGAATGT
TTGGCTGCGACCTGGGGCCCGACGGGCGTCTCCTCCGCGGGTATGAGCAGTATGCCTACGACGGCAAGGATTACA
TCGCCCCGAACGAGGACCTGCGCTCCTGGACCGCCGCGGATACCGCGGCTCAGATTACCCAGCGCAAGTATGAGG
CGGCCAATGTGGCTGAGCAAAGGAGAGCCTACCTGGAGGGCACCTGCATGGAGTGGCTCCGCAGACACCTGGAGA
ACGGGAAGGAGACGCTGCAGCGCGCGGGTACCAGGGGCCATGGGGAGCCTGCTCGATCTCCTGTAGATCTCCCGG
GCTGGCCTCGCACAAAGGAGGGGAAGAAAATGAAACACCACCAGAATATCGCCCTCCCTCCTGTCTGACGGAGA
GGAATCCTCCTGGGTTTTCCAGATCCTGTATCAGAGATTGACTCTGAGGGCCACCCCTGCTCTTCTGGGACAATT
AAGGGATGAAGTCTCTGAGGGAGTGGAGGGGAAGACAATCCCTGGAAGACTGATCCGCGGTCCCCTTTACCCCCA
CAGCAACCTTGGGCACCAGGACTTTTCTCCTCCCGGGCCTTGTTCTCTGCTCACACTCAATGTGTGCGAGTCTGAC
TCCAGCTCCTCTGAGTCCCTTGGCCTCCACTCAGATCAGGACCAGAAGTCCCTGCTACCCTGCTCAGAGACTAGA
ACTTTCCAAGGAATAGGAGATTATCCCAGGCGCCTGTGTCCAGGCTGGTGTCTGGGCTCTGTGCTCCCTTCCCCA
CCCCAGGTGTCTATTATCAGGATGGTACATGGGCGCTGCTGGGGTGTCCCATGAGGAATGCAAAGTGCCCTGA
GTTTTCCGACTCTTCTTTTACAGCCCCCCCCAAGACACACGTGACCCACCCCCCTCTCTGAACATGAGGCATAAC
GAGGTCTTGGGTTCTGGGCTTCTACCCTGCGGAGATCACATTGACCTGGCAGCGGGATGGGGAGGACCAGACCCA
GGACATGGAGCTCGTGGAGACCAGGCCCCAGGGGATGGAACCTTCCAGAAGTGGGCGGTTGTGGTAGTGCCTTC
TGGAGAGGAACAGAGATACACATGCCATGTGCAGCACAAAGGGGCTGCCCAAGCCCCCTCATCCTGAGATGGGGTA
AGGAGAGAGATGGGGGCGGCCATGTCTCTTAGGGAAAGCAGGAGCCCCCTCTGGAGACCTTTAGCAGGGTGGGGC
TGGGTCTTGGAGGTGAGAACCCTCACATTCCCCCTCCTTTCCCAGAGCCCTCTCCCCAGCCACCATCCCCATTGT
GGGTATCATTGCTGGCCTGGTTCTCCTTGGAGCTGTGGTCACTGGAGCTGTGGTCACTGCTGTGATGTGGAGGAA
GAAGAGCTCAGGTGGGGAAGGGGTGAGGAGTCGGGTTTTGAGTTTTCTTGTTCCCACTGGGGGTTTTCAAGCTCCAGG
TAGAAATGTGTTCTGCCTGGTTACCGGGAAGCACCATCCACATTCATGGGCCTACCCAGCCTGGGCCCTGTGTGC
CAGCACTTACTCTTTTTGTAAGCACCTGTGACAATGAAGGACAGATTTCTCACCTTGATGATTGTAGTGATGGGGA
TCTGACCCAGTAATCACAGGTTCAGGGGAAGGTCTCTGCTGAGGACAGACCTTAGGAGGGCAGTTGGTTCAGGACCA
CATCTGCTTTCTTGTTTTCTGATCCTGCCCTTGGTTTTGCAGTCACACATTTCTGGAAACTTCTCGAGGTTCCAAG
ACTAGGAGGTTCCCTCTAGGACCTCATGGCCCTGCTACCTTCCCTGGCCTCTCACAGGACGTTTTCTTCCCGCAGAT
AGAAAAGGAGGGAGCTACTCTCAGGCTGCAAGTAAGTATGAAGGAGGCTGATCCCTGAGATCCTTGGGATATTGT
GGTTGGGAGCCATGGGGGAGCTCACCCACCCACAATTCCCTCCTCTAGCCACATCTCCTGTGGGATCTGACCAGG
TTCTGTTTTTGTCTACCCAGGCAGCCAAAGTGCCCAGGGCTCTGATGTGTCTCTCACGGCTTGTAAGCTGAG
ACCCTGGGGAGGCTGATGTGTGTGGTTGTTGGGGTAACAGTGGATATAGCTGTGCTATGGGGTTTTCTTTGACTT
GGATGTATTACGACATGATGGGCTGTTGAAGGTGTGACCCCTCACTGTGAGTGATATGAATTTGTTTCATGAATA
TTTTTTCTATAGTGTGAGACAGCTGCCTTGTGTGGGACTGAGAGGCAAGATTTGTTTCATGCCTTCCCTTTGTGAC
TTCAAGAACCCTGACTTCTCTTTCTGCAAAGGCATCTGAATGTGTCTGTGTCCCTATAGGCXTAATGTGAGGTGG

2239/2825
FIGURE 1970B

TGGGGAGACCAGCCACACCCGTGTCCACCATGACCCTGTTCCCCACACTGACCTACATTCCCTTCCCCGATCACC
TTTCCTGTTCCAGAGAAGTGGTGCTGGGATGTCTCCATCTCTGTCTCAACTTCATGGTGCACTGAGCTGTAACTT
CTTACTTCCCTATTAAAAATTAGAATCTGAGTATAAAATTTACTTTTTTCAAATTATTTCCATGACGGGTTGATGGG
TTAATTAAAGGAGAAGATTCCCTAAAAATTTGAGAGACAAAATAAATGGAAGACATGAGAACCTTCCAGAGTCCACG
TGTTTTCTTGCTGATTTGTTGCAGGGGAGGAGAGTAGATGGGGCTGTGCCCAGTGTGTGCTCAGGCCACCATGG
GCTTTATGTGGTCACAGCTCACCTGGGTCATCTTTGCTGCTCCACTGTCCTTGGCCCTTCAGTAGAACCTTGTCC
CACCAGGACCTGTGATCACAGGGACTTGGATGTACCTAGGGTGGTCCCTACACATCGAAGTCCTTCCGGTATGA
AGAGACAAATTTTCAGTCCCCTGTATCTTTTGCCCTCCTTCCAGGTCTCTTTCCTGGATTGTATTTTCCATCTTT
TTCCCCAGCCTTCTTAAAGGAAGCAGATTCTGAAATTTGCAGAGAGGAGGGGTCCCATAGTTTCTCATCGTAGGT
AACTTTCTGTTGGAACCTCCTCTTCTGCTTTCCTACTCTTCTTCTGCCTGAGTTGTAGTAATCCCAGTGCTGGCT
CCAATCCAACTCATGCATTTATAAAGCAGAGTCTGATTTAGATTTATATGGGGTTGGAAAATTGGACCCACAAG
GCTAGGATTATCTTTCTGAACAGAAAAATATGGCTGTGCGCTGCAGTGTGCAGGAGGGTTGGTGTGGGAGGAGG
TGGGAAGGACACACAAGCAGCCCTGGTGAGAAAAGCACTGGCAGCACTGATGTTGGTGTGAGATGATGTTGTTCT
TTAGCTACGTTAATAAAGATATTGCCTTTAGAATACAGAGGTGCTCTACAGTGATCATTCACTCACTGACATTT
GTTGCTGCTAGGTATATGACTGTTTTTGCATTTAGAAAACATCATTAAAGTAAAAACAGAAAATTTCTGGCCTT
GTGGTGTATACGXCTAGATG

2240/2825
FIGURE 1971A

AAGACAGGAACATGGTGTTTATAAGCTGCCCTTAATGGCAGAGAACACAGACAGAAACGAGGGAAGAGAGAGAAA
TTGGGGACCTGAAGAAAGGGGGCCAGCAGCAGGTAGGTGCCATCAGGGACAAGAACAGCACCTCCCGAGGGTGGG
AGACCCAGGCCCTTCTGGCAGCAGGTCTGGATGGAAAGTGGACAGGAGGCTCACCCGTCTGCATCCCCCTGCTCC
TGCCCCCTGCTCGGCTACAAAAACCAAGGGACAGCAGCTGACCACACCCCGGTAGCCACTCCTGCATAAAGCTCT
CCCCCTCCTGTGACCAGCTGAGGACCTCAGGCTGCAGCGGAGCCATGCCCAGATACACGGTGCACGTACGTGGGGA
ATGGCTGGCAGTGCCCTGCCAGGACGCGCAGCTCACTGTGGGCTGGCTGGGCCGGGAGGCCGTGAGGCGCTATAT
CAAGAATAAGCCCAGACAATGGTGGCTTCACCTCCGTGGATGACGCGCACTTCCTTGTGCGCCGGTGCAAGGGCCT
GGGCCTGCTGGACAACGAGGACCGGCTCGAGGTGGCCCTAGAGAACAACGAGTTCGTGGAAGTGTTATAGAGGG
TGATGCCATGTCTCCTGACTTCATTCCATCTCAACCAGAAGGAGTTTATCTATACAGCAAGTACCGGGAGCCTGA
AAAGTACATCGAGTTAGATGGAGACCGTCTGACCACGGAGGATCTGGTCAACTTGGGAAAGGGACGCTACAAAAT
AAAGCTCACCCCAACTGCTGAGAAGAGGGTGCAGAAATCCAGGGAGGTCATAGATAGCATCATAAAGAGAAAAC
AGTTGTTTACGGTATTACTACAGTTTTTGGGAAATTTGCCAGAACTGTAATTCCTATCAATAAGCTACAGGAGCT
TCAGGTCAACTTAGTACGCTCACATTCTTCAGGTGTTGGGAAACCACTAAGTCCTGAGAGGTGTGCGATGCTCTT
GGCTTTAAGGATCAATGTCTTAGCCAAAGGATACAGTGGCATTTCCTGGAGACCCTCAAACAAGTCATAGAAAT
GTTTAATGCCTCCTGCCTGCCCTATGTCCAGAGAAAGGAACCGTTGGTGCCAGTGGAGACCTTGCCCCACTCTC
TCATCTTGCTCTTGGGCTAGTTGGAGAAGGGAAGATGTGGTCTCCGAAGAGTGGCTGGGCTGATGCTAAATACGT
GCTAGAAGCCCATGGATTGAAACCAGTTATTTTTAAACCAGAGGGCCTGGCACTCATCAATGGGACGCAGAT
GATCACATCCCTGGGCTGTGAAGCTGTAGAGCGAGCCAGTGCTATTGCACGGCAGGCTGACATTGTGGCAGCCCT
GACCCTTGAGGTGCTGAAGGGCACCAACAAAGCCTTTGACACTGACATTATGCTCTTCGACCTCACCGTGGGCA
AATTGAAGTTGCTTTTCGGTTTTCGGTCACTCTTGGAATCAGATCACCACCCATCAGAAATAGCAGAGAGTCACAG
GTTCTGTGATCGCGTCCAGGATGCATACACCTTGCGCTGCTGTCCACAGGTCCATGGTGTGGTGAATGATACAAT
AGCATTTGTGAAGAACATCATTACCACAGAATGAACAGCGCAACAGATAATCCTATGGTCTTTGCCAATAGGGG
AGAGACAATTTCTGGAGGAAACTTCCATGGTGAATACCCAGCCAAAGCCCTAGACTACTTGGCCATTGGCATCCA
TGAACCTTGCTGCAATCAGTGAGAGAAGAATCGAGCGGCTCTGCAATCCCTCCCTCAGTGAGCTGCCTGCCTTCCT
GGTGGCTGAAGGTGGTCTGAACTCTGGGTTTCATGATAGCTCACTGCACGGCAGCAGCCCTTGTTTCTGAGAACA
GGCTCTGTGCCATCCCTCGTCTGTTGACTCCCTCTCCACCAGCGCAGCCACGGAGGACCACGTCTCCATGGGAGG
ATGGGCAGCAAGGAAAGCCCTCAGGGTCATCGAGCATGTGGAGCAAGTGCTGGCCATCGAGCTCCTTGACGCCTG
CCAGGGCATAGAGTTTCTACGTCCCCTGAAAACAACCACTCCGCTGGAGAAGGTCTATGACCTGGTGCCTCTGT
TGTAAGGCCCTGGATAAAAGATCGCTTCATGGCCCCGACATCGAGGCAGCCACAGGCTGCTCCTGGAGCAGAA
GGTTTGGGAAGTAGCTGCTCCATACATTGAAAAATACAGAATGGAGCATATTCCAGAATCAAGACCTCTTTCTCC
AACAGCCTTTTCACTGCAATTTCTGCACAAGAAATCCACCAAAATCCCGGAGTCTGAGGACCTTTTAATGGGCTTT
GTCATGAAGTAGCAGATGAGAGGGCAGTCAGTTTAGCACAAAGCAATACTAGGCTGAAGGAGAGACCTGAGAACT
TTCCTAGGTAGATCAATCCATTGTATCATTAGTTCTTCTAAAGCCTACGTTGGTTAGGCTGATGGCAGTATTAT
AGTTGCTAAATTCAGCACTGTGTTCCCTGTTGTCGTGGTTCAAGACCCACCAGGTATTTTTCAGATTATAAACTTT
TCTTTCTTTCTTAACAGTTTCAACAGGCCACTCACTCTTAAGGGTGAGAAGAATAACCACAATTGTATGTGCCTG
TTTTTTACTCTTAGCATTAGATGAATTCAAATTTGGAAACAGATTGATAGCAATTTTTTCTAAAAACATTAGACT
TTTGTTAACCTTTTTTTTTTTTTTAAATTTGCTTCAACAAGCTCTCCACCAGTTGACTTTCTTTGGCTAATTTTA
CTTTGCATGATATGCCTTAATATGCCTTCATAAATAACCAATTTTAAGTCATAATTTGTCTTAAGCTGCTTTTTT
CTTCTATTAATTGGATCATAGTAAAGAGTAGTCAATAGGGTCTTCAGCTATTAATTGTAGAGGTGATTAATAACCA
ACAAGGAGTTTCATGTGCAAAGGAGATAAGGAATGAATATAAAGATTGCTATTTGGGTGGCTCTTATTAAACTGT
GTATTTTGTACTTATCACTACAGTATCCCCCAATGCTTACATGGGAGTTTGAGGTTAGTATTTTCACTTCCTT
GGTGTTAGTACTCTATTACATTCTTATTGTAACTTCCTCATTTTACAGATAAGGAATCTTTGGGGATTAAACCA
ACCTCCTTTCTGTAATGGTAATCATTAAAAATAAGTCCTATTGATAAAGGTCAGATGGAGCCCTAGAGTGTATTAC
TGCATCTATTTTTTTTCCCCGAGAAGATAAAGGACCTTCAGGGATGGCTTAAGTGTATCTGTCCAGATGAAGGATG
GGTCACATGACCTCTTGGCTTCCCAAGTCTAAGCTCTGTGACTTTGCACCAGTGTGTGCATATATGTGCAAGGCC
CTTCAAGTGGTCTGAAACCGTGGCTCTAAAAACCACAGCTGGTGGAGAGGAGGACAGACACACTTGCCACCTTGC
CTACCTAATTGCCATCTAAATGGGCCGAACAGTGGATTTCACAATAGAGTTTTTACCCTTTAGATTTACAACCT
GTCAGGTGGAACTGAAGTGAAAATGCTGCACACAGCAATTCAGGGAGCAAAAAATGTGCTGAGGAGACTGTTT

2241/2825

FIGURE 1971B

ACCTAAAGGTTGTTCTTGGTGCTATTCCTTGTCAAAATGTGAACACACACAAATGAGGTTTGTGCATTGTCATCC
GTGGGCTGCCATTGAGCCAGTAACCCCCAGTGGTCTCATGGTGCTCTTCGCTCCAGTTTGGGGAATGCTGGATTG
TTTCAGCCCCCTGCAGCCCTCCAGGTCAAATGACACTTTGTCACTGAGTTTTCTACACAGCTCTATTAGTAACG
ACAGCACACGCCTTCAAGGGAACCTCAAGGGAAACATGGAATAAACTAAGTCTCAATTGCAA

2242/2825
FIGURE 1972

MPRYTVHVRGEWLAVPCQDAQLTVGWLGREAVRRYIKNKP DNGGFTSVDDAHFLVRRCKGLGLLDNEDRLEVALE
NNEFVEVVIEGDAMSPDFIPSQPEGVYLYSKYREPEKYIELDGDRLTTEDLVNLGKG RYKIKLTPAEKRVQKSR
EVIDSIIKEKTVVYGITTGFGKFARTVIPINKLQELQVNLVRSHSSGVGKPLSPERC RMLLALRINV LAKGYSGI
SLET LKQVIEMFNASCLPYVPEKGTVGASGDLAPLSHLALGLVGE GKMWSPKSGWADAKYVLEAHGLKPVILKPK
EGLALINGTQMITS LGCEAVERASAIARQADIVAALTLEVLKGT TKAFTDIHALRPHRGQIEVAFRFRSLDSD
HHPSEIAESH RFCDRVQDAYTLRCCPQVHG VVNDTIAFVKNIITTELNSATDNPMV FANRGETISGGNFHGEYPA
KALDYLAIGIHELAAISERRIERLCNP SLSELP AFLVAEGGLNSGFMIAHCTAAALVSENKALCHPSSVDSLSTS
AATEDHVSMGGWAARKALRVIEHVEQVLAIELLAACQ GIEFLRPLKTTTPLEKVYDLVRSVVRPWIKDRFMAPDI
EAAHRL LLEQKVWEVAAPYIEKYRMEHIPESRPLSPTAFSLQFLHKKSTKIPES EDL

2243/2825
FIGURE 1973

ACAGAGAGACTTTGTCTCAAAAAAAAAAGAAAATTTTAATTTTAATGTAGACAGTATGAATTATCTTGTTCTGCA
GTGGTTGCTTTTTTGATTGCTTATTTAATAGAGTTGTTAAGATATTTTACATCTTCTCCTGTTAGCTGTTTCAGCT
TTTCCTTTCATATTGAGAACACTACACAGTGCTGAAGTCCAGCTGGTACACACCGGGGTGACACCTTGGCTGCAT
CTGTTCTCAACAGTCAGACACTTCTTCTAATTGGTTGATGCTGGGCTGTACTGGTTGCTAAATATTGCACATCAT
TTTAAACTATTTGAGATGCACTTTTGTACTCAGGAGGCCAAGGCAGGAGGATTGCT

2244/2825
FIGURE 1974

QRDFVSKKKENFNFNVD SMNYLV LQLVAF

2245/2825
FIGURE 1975A

CCCAGGCCGGCTCTGGCCTCCTGACCCAGACAGCGCAGGGCGCGAGGGATCGCGCGGCCGAGCCCGGGTCGCGCC
GCTCCCAGCATCGGGGCCGCTAGCCAAGAGTTTCGAGGCCCTTCCCGATCCGGATGTGATGAAAAAGAGCAACAGAG
GGAGAAGTGTTCAGGATTGTAGGAGTGGAAGAGGGGAAAGAGAGGCAGAGAGGGGGAAGGCCCCCTCGCAGGGG
AGCCGGCTGGAGTGAGCTGGCTGGAAAGAGGGGGCGGAGTGC GCGGAGTCAGAGCCGCCACCGCTGCCGAGTTG
CCGCCACTGCGGCGTCTGGGCTGAGCCGGAGGGAGGCGGGAGGACGCGCAGGGGCGGCCGCCGCCGCTCGTCAGGC
CACCGGGGCGAAAATGCGGCCGCTGCCGGAGGCTCGCTAACTTTCGGGGCGGAAGAGGAGGAGGAGGAGGAGGA
AGGGGCTTGAGCGACTACGGGGGATGCGGAGAAGCAGTCAGTTCCCTGCACCCAGCACCTCACAGCCCTTCCT
CCGTGCGCCCTGCCGGGCGGCGAGCTAGGCGGCAGCGGCGGGCGGGCTCGGCGGAGCGGCCCCATGTCCGGCG
CGGGCGAAGCCCTCGCTCCCGGGCCGCTGGGGCCGAGCGCGTGGCCGAGGCGGGCGGGCCAGCTGGGCTCCA
CAGCCCAGGGAAAATGTGATAAAGACAATACTGAGAAAGATATAACTCAAGCTACCAATAGCCACTTCACACATG
GAGAGATGCAAGACCAGTCCATTTGGGGAAAATCCTTCGGATGGTGAAGTCAATTAGAACCCAACTCAGCGCTTGC
CTCAGCTTCAGACTTCAGCACAGGTGCCAAGTGGTGAGGAAAATAGGCAAGATAAAGAACGGCCACACAGGTCTGA
GCAATGGAAAATGGAATTCACCACGGGGCCAAACACGGATCCGCAGATAATCGAAACTTTCAGCACCTGTTTCTC
AAAAAATGCATAGAAAAATTCAGTCCAGCTTGTCTGTAAACAGCGATATCAGTAAGAAGAGCAAAAGTAAATGCTG
TCTTTTCCCAAAGACAGGCTCTTCACCTGAAGATTGTTGTGTCCACTGTATCCTGGCTTGCTTGTCTGCGAAT
TCCTGACCCTTTGCAACATTGTCCTGGGACAAGCGTCATGTGGCATCTGCACCTCAGAAGCCTGCTGCTGTTGCT
GTGGTGACGAGATGGGGATGATTGTAAGTGCCTTGTGATATGGACTGTGGCATCATGGATGCCTGTTGTGAAT
CATCAGACTGCTTGGAATCTGTATGGAATGCTGTGGAATTTGTTTTCTTCATAAATATTTATCTTTTGTGTTGT
GTTAAACTGGAGAGTGTGTTAAAAATTTCTTTTGGGGGGAAGAAAAGCACATTGTAAGATTCTCATGAAACAAC
ATGGAATTTGCACTGTAACTCATTATTGTAAGTAATCTCTGAAAGCCTTTTTACTTTAACCAAATCTACATGGT
TTAATATGTGAAATTTTAACTACTTTAACTAGTTTTATAAAATTTCTTAATATGTTACAATAACTTAGGGACATTT
TGACACCCCCCTTCCCAAATGTTAAATGCCTTCTCCTTTTACCGATATTTCTGTTTCTTTTAACCGTTCTCAGG
AGCACTTTGCTCCAAATATATTATTTTTCAGTGTGTATTTAAACGAGGCAGTTTATTTTGATATGTATCTATTCA
TGATTGAAAGGAAGCAGTCTTGCCAGGCACGGTGGCTTACACCTGTAACCCTGGCATTTTGGGAGGCCAAGGTG
GGCAGATTGCCTGAGCTCAGGAGTTCGAGACCAGCCAGGGCAACATGGTGAACCCCATCTCTACTAAAATACAA
AAAGTTAGCTGGGCTTGCGGTGTGCGCTGTAGTCCAGCTACTCAGGAGGCTGAGGCAGGAGAATTGCTTGAA
CCCGAGAGGCGGAAGTTGCAGTGAGCCGAGATTGTGCCACTGAACTCCAACCTGCACTCCAGCCTGGGCAACAGA
GCGAGACTCCATCTCTAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA
TATTTTAAAGAACTTTAGGAAACAAACCCACATAATAGTTGGGAACCAAGTGTGATCTCTCTCCCTTACCTTC
TCCACTTGTTCAACAGACTCTGAATGCCGACTGTGTGGACTCTCTTCTCAGACTGTGGGGACAGATACAATTCC
ACTCCTGTCCACAGGAACATGAGATTTAGCAGACTAAGGAGATCTGTAAAGAATGAACCATAACCACAAGGCATAC
TGAAGTGAGGATTATAAGAGAAATAAACTCAAAATGCTGTTGGAATATGCAGAGAATTGCTACCAGAATATTCAG
TAAGGTTTCAGGGAGAATGTGGCATTGAGGACTCTCTTAGAATGAGTGATTACCTGCTATTTAAATGAATTAT
TTAGATTTTGGACAAAGATTTAGGTGGACACCCTAAACTGTGTGTGCCTTTAACCAGTTAAAGAACAGTGCCTT
CAGCATACTTTTTTATTAGTTGTAGGAATACAGCTTTTTGAAAAAGCTATAAAGTTTAAATTAACATAAAATATG
CATTTTCTTACACATAATTTAAATGTTATCATACTTTTTTGATGAAAACATAATGCCTTAGTAAAAATAGCTCTAT
TTAATAAAGAAGATTGAGTACTCTGACACATTTCAATTTAAATTAGGAAATTTTAAATATTAATAATCCCAGTGTTT
TGAGTTATTGAAAGGCTTTCTTTTATTTTGGAGCTTTAGGTCTTTTGGGATGAGAACATTTTAGTTGTTTAGT
TTGTTTCTTAAGCAGTGCTATTTTGTAAACACAGATAAATGGAACCATTTCTTTCAATGCAGAAGAAATCTA
GATATCCCCTACTGTGACCAAATTTCTGTATTACGATTTTATGTTAAATTAACATAATATGGCAGGTTATAATGA
TCCTTAAGTGTAAGAAATCAGTCAATTACAAGAGTAATTGTATAGTTATTGAGACCTATAGTGTGTGGCTTAGA
TGAAAGGGAGAGTAAATTTTCATACCATGCTCTCTCTACTCAGTTTGATCTCTCTAAATTTGATGTTTGGTTG
ATTTAATATAATCTTAGTAGAAATTTGAAAGTATGCTTTGGGATTAATAATTATTTTAAATTTTCTGGCTGA
ATATCAAAATGATAGTAACAACAGAAGCATAATTTAGGAAGGCTTTGCAAACCTAGCCTTTTAAAGAGAGGTTT
TTAACCTGAAGCATGAGAATATATCACCTGTGGTTTTCTTTGAGATGAAACGTAGTTTCTAGTTATATCATT
CTTAAAGGGCTTAAAAAGAAAAAATAGCAAACCTTTGAATCTTTCTTTTATTGCTATTTACACATACATACAC
ACATACAAACCTTTAAATTTTGGGATCTGAATATAATTCTGGTAAACAGCTGTCTTCATTTTCTCTCTAAAG
AACTTAATTCATTTGTTACATAAAATATAAGGAAATCTTTATACTATTTTACAGTAACCACAATCTAAATATTTA

2246/2825
FIGURE 1975B

CATATACCCAAAATTAAC TTATGCTCATATATTAGGATGTGAGAATATCATCTGTTTATGGACACATGAAACCTC
CTAATGACCTGGAATTGTTAGAATATTTGACTTTTTATATGCAAAGTTTTTCAACCAAGTGGTTTGTCTAATATT
TAAACATGTACTGGCACAATTTGTGATGAAAATATTAGCACATTTGCAATAATGTTTCTCCATAACAGAGAATGT
TAATGGATACCAGAATTTTATTTTTGTATTTATGTTCATAGTACTTTTCCTCTTGTCTACTCCAGACAGTTATTC
CATAAAGCATTGTGATAATTAAAAGGAAAACAGAAAAAGGAAAAGTAGGCAAATGTGAAAATAGTTTCAATATAT
CTTATGATTTCTTAATGTAAAATGTTTTGTTGAAGTATATGGCTATCATGACTAAGTGCTAGAATTTATAGTTAC
AGGCGGTGTCCTTTTAAATGTGGAAAGGCTTTTAAAATATTTTAAAAGTGGACCTGTATTATCCTGAATACACTA
TTTTGAAAATTTTAAAGAAAAA

2247/2825
FIGURE 1976

VRGVRAATAAAVAATAASGLSRREAGGRAGAAAAVVRPPGRKCGRCRRLANFPGRKRRRRRRRKGLGATTGGCGEA
VSSLHPAPHSPSSVRPAGRRARRQRRGAGSAERPMSGAGEALAPGPVGPQRVAEAGGGQLGSTAQGKCDKDNTK
DITQATNSHFTHGEMQDQSIWGNP SDGELIRTQPQRLPQLQTSQVPSGEEIGKIKNGHTGLSNGNGIHHGAKHG
SADNRKLSAPVSQKMRKIQSSLSVNSDISKKSNAVFSQKTGSSPEDCCVHCILACLFCEFLTLCNIVLGQAS
CGICTSEACCCCGDEMDDCNCPCDMDCGIMDACCESSDCLEICMECCGICFPS

2248/2825
FIGURE 1977

GCGGCCGCCGGTCCCTCCCTCCACCTCCTCCTCGGCCCCCCCTCGCTTCCCTCCTCCCACTTCCCCGAGCTCCGGCG
TCGTCCCGGCCACGCTCGACGCTGCTGCGAGGAACAAAAGGAAGACCCCGCGGCGGCGGCGGCCACCTCCGCCTG
CTGCTCCGACCCGCTCCCGGCCCGCGGCGGCGGCCACCAGGGCGCCCGGCTCAGCCTTCCCGGAGGCCTCGGCCCG
GCCTCATCGTGCCGGCTTCGCGCGCGAACCCGGCTTTCGCATTTGGGACCCTGCAGGAAAAAT**ATCG**CTCAGGAG
ACTAACCAGACCCCGGGGCCCATGCTGTGTAGCACAGGATGTGGCTTTTATGGAAATCCTAGGACAAATGGAATG
TGTTCAGTTTGCTACAAAGAACATCTTCAGAGGCAGCAAAATAGTGGCAGAATGAGCCCAATGGGGACAGCTAGT
GGTTCCAACAGTCCTACCTCAGATTCTGCATCTGTACAGAGAGCAGACACTAGCTTAAACAACGTGTGAAGGTGCT
GCTGGCAGCACATCTGAAAAATCAAGAAATGTGCCTGTGGCTGCCTTGCTGTAACCTCAGCAAAATGACAGAAATG
AGCATTTCAAGAGAGGACAAAATAACTACCCGAAAAACAGAGGTGTCAGAGCCAGTTGTCACTCAGCCCAGTCCA
TCAGTTTCTCAGCCCAGTACTTCTCAGAGTGAAGAAAAAGCTCCTGAATTGCCCAAACCAAGAAAAACAGATGT
TTCATGTGCAGAAAGAAAGTTGGTCTTACAGGGTTTGACTGCCGATGTGGAAATTTGTTTTGTGGACTTCACCGT
TACTCTGACAAGCACAACTGTCCGTATGATTACAAAGCAGAAGCTGCAGCAAAAATCAGAAAAGAGAATCCAGTT
GTTGTGGCTGAAAAAATTCAGAGAATA**TAAA**ATTACTTCTTGTGAAGAGACTGAACTTTGTTTTATTTTAATAT
ATCGTAGGAAAACATTAAAGAGCAGATGCATGGCCATTTTTCTTTGATGTTCTCCAGAGTTTTACATTACACTTG
TCTGTCTTATAATTGATATTTTAGGATGTTTGGGTGTTTGTACAGGCAGAATTGGATAGATACAGCCCTACAAA
TGTATATGCCCTCCCCTGAAAAAATTGGATGAAAACTGCACAGCAAAGTGAAACACACAGATAATAGGAACAA
AATGTAGTTCCCATGTGCCAAACAAAATAAATGAAATCTCTGCATGTTTGAGCATATCTGCCTTTTGGGAATGT
AATCAAGGTATAATCTTTGGCTAGTGTTATGTGCCTGTATTTTTTTAAATGGTACACCAGAAAAAGGACTGGCAG
TCTACTTCTACCATAGTTAAACTTCACCCCTCTTTAATTTACAAACATATTCTTTGGAAGCAGGAAGAAATGCTCA
TAAAGAGGATCAGACCTTCTTTCCCGTGAAACCAGTATTTGGCGCCATATATAAGCCTGGTTAAATTGGTCATCT
AAAGCTGTCAAATAAGACATTCTGTGAAAGGTAAACATCGAAACTGGTTATAAGTAAAACCATCAAGCCAACAAC
AGGGTCTTGAGATAACCTTTGAAGCTTATTGTACTGGCCTGCACCAGAAGATGTCTGCATTACTCATTGCTAAAA
ATGTGTAGCACAGAAGCTGCACTAGGATTAATTTGTTTACAAGAAGAAATTTAAACTCTACGTTTGGTTTTACAT
ACAGCAGCTCTATTGAATAACATGCATCTGAATTTAAGTTGCAAAGGTATCTGAATAATTTTTCATGTGCATCT
TTTGTCGAATGTTTTGGTTCAAGAAAGAATGTTTAAAGCTTTTTTAAAGACTTCAGTTCTTAATGTAACGTGTACC
CTTCTGCATGGAAAATCATAACCAACATGGCTGCAGTAGACTTCTTAGTGGTATCCAGCGCCACTTGCAGAGGGC
TGCTTTATCATATTGTACTTGGGTGTAGGACTCTAGTGTTCTTGGGTGTATTGCATGGGCTGCATTATCTACAGC
ATTGTACAATAACAACCTAGAAAAGGCAGTATACTTCACTGATGCTTGTCTGGTAATAATCACTTCTGTGTTATAA
TGGAAGGTTTTTTGTGATGTATGAACTTGTGTTTTTTATATATAAATGAGTATAGTTAGTGTTGTGGTAATGCC
TGTTTTCACTGTAAATAGTTAAGTATGTACACGAGGCACTACTTCTGATTTATTGCAATGTTTCAGTCCTAGTTT
TTACTTTTATTCTTAAAGCATTTCAGTTTTGCTTTCAATTTTATGTACCTTAGTTCTGAGTTAGACCTGCAGATGT
GTACAGATAGTTCATATTTATGTATTGCACATAATCATGCTATTTCAGCATTGATGCTATATTGTATTATGTAAT
AATAAAAGCCATGTACAGAGGGAAA

2249/2825
FIGURE 1978

MAQETNQTGPMCLCSTGCGFYGNPRTNGMCSVCYKEHLQRQQNSGRMSPMG TASGSNSPTSDSASVQRADTSLNN
CEGAAGSTSEKSRNVPVAALPVTQQMTEMSISREDKITTPKTEVSEPVVTQPSPSVSQPSTSQSEEKAPELPKPK
KNRCFCMCRKKVGLTGFDRCGNLFCGLHRYSDKHNC PYDYKAEAAAKIRKENPVVVAEKIQRI

2250/2825
FIGURE 1979

TGAAAAATAAGGATTTTTGAAAGAATTATACCAATTAAAAATTATTAAAGGCAAACATAGAATTCATAAAAAATGTC
CAAAGTAGAAATGATGACCTATAATTTGGAGCATTTCCAATTCAGTAATTTCAATTTTGCTCTTGAAAACATTTA
ATATATATCCAAGACTGACATTTCTTTAGCTGAACCTAACGTTTGGGTCTCTGAGTGAATTTATAATAACTCCTT
CCTTCCTTAGCATAGGGTTTTCAAATTTGATTTATAATTCCTATTTCCAGTAAATATTGTTCAATTTGTCCACAT
CTCTCCCTATGATATGTTGCTGGAGGTAAGAATTTCTTTTCATATTCCTATTTTTTTTTTTCCCATAGACTAGGCT
CATAGAATTTAAACAAGCAAATTTTCTGAGCTTTTTCTTGCCAAATGAAAGAAGACTGGTAAATTCTCATAGAG
AGGTTTGTGTAGTTCTTGGCTCTTCTGGGGTTAATGTGCTTATATTCACAGTGGCAAATTGGTCTCAGACTTTA
ATTTATTTATTTTGAATTTCTCTTTAAAGTATCAATTTAAAAGGTAAGTAAATTATTTCTTTCTCATT
TTCAAAGTGATTTTTGCATTATTAAATTTCCCTGCCATTGTAATGCCATTTACGCAGAAAAAAGTCAGCCAG
TAATTAAGAAAAAAGTGATGGAGATTAAGTAGTATTTTGGCTTATTTTTAGGACTCATCATGAGAAGACACAGT
TCCTTTAATCAGGAAATTAATATCCATAATTTTCACTCAAAATGCAGTATGTAAAGCAGATTCTCAAAAACTCT
CCTGAACACTTATTTATATATATGTTTTATATAAGTAAAAATTTTCTCATATTTTATACGATATGNNNNNNNN
NNNNNNNNNNNNNNNNNTACTTACTACATGTTCTGTACTTGTACTTTGTACCATGCATATTCAAATGTTTATATA
CATAAGTTTATTATAACATAAACAGTAAAAGTAATGAATACTGTTTAAATAACTAATATAGTATTTTTTAATTT
TTGTGGGGATGGATTCTCAAATACTTGTGATTTTAAAGATTCTAAAGCTAAAACACAACCTTGATTTTTAAAAAGA
ATGATTCTCCTTACACAATTATAAATATTTGCAGTAAATATTTTCTTATAATACTGTTTTGACCCCATTTAAAA
AGTATTAGATTATATTCCTTTGATCCAATGAAAAGTGAACCTTATAAATGGTTAGCTGAAAGTAGACCTTATTCT
TGTCTTCTTTAGAAGAGTAAAGATTTGTCTAGGGAAGATGGCTGACTTCGGTTCCCAACATGCGTATGCATTT
AGACTGTAGCTCCTCAGCCCTGTGGACACAAAATTTGGACAGCTTATTAGGTTACGTTAGCAATGCATGACGGTT
TCTCCAACACTAAGATATTCACGTTGAAACAGATTTTCTGTTCTGCTTATGTGTCTGGTAAAATTGTTTCCCCAA
TTACAATTTGACATATCAATAGAGGGTTAACAAGAGTATAAATTACATAACAGAATTCCTCATGAAGTGAATCAG
TCTACAGGAAAAATCATTATTTTATCTTGATTTGCAGATGAATATACTGCTAAGAAAGGGAGCAACTCTGACCTTT
GTTAAAGTTGATCTTTTGTAATTGAGGTATAAGGTATGAAAAGATAAAAAACCGAAGGCCAGAGAATCAGGAAAT
GAAAGATAGTATGGACTGAAGGTAACAATATTTTAAATGTTATGCAATATAGCCAGAGAAATATTTAAATTAGTT
GTTTGCTGTGCATAGGTGGATCTCGCAGGAAGCTAATGAAACCTAAGCTTCAGTGCCTCTCACTTAGACATGTTT
CATTCGAGGTCTGAACCTAATTTGTATTAGGAATTCGTACTAATTTGTTGAAGAAGACCAGCAAAGTTGTG
TACACTTCTACCCCCACAAAATCTGCATTGTCCATGTGAGTAAAGTAAAAATAATTCCTGTTATTTTTTTCTGTTA
GAAATAAGTATGGAGGATATGTTTTTAAAAATTTATGAGTTAATTGAAATATCCATATATAACAAGTGACTTTCT
CACAATATATATGATGTGATATATAGGGAGATAGTTTCACTTTCATCATATTTTATACGTTGATTCTGAACTATA
GAAAAATAATAAATGGGATTTTAATTATAGCTCTTAGTTGGGAAAGAAATATAGAGAGATGTGGGATTTGAATGC
CCATGAAAGACATTTTATTTTACTTGAATATATTCTTGCTTCACTTTACCTCCATAATATGTTGTACATTAGTG
CTGATCAAGTTTACAGAGTTACATTTTGCTTTTCTAACCATTACAGTCAGGAATTTAAATATGGCATTGTATAACA
ACTGGGAAGAAGCTCATAGTGGATATAAATTAGAGTAGATAATGGGTCACCTTGATAGCCTCTGTTTACATTACT
TGTATATGGGCAAAATAATTATTACCTATACGTGTATTTAAGCTTAATTTTCATATAAACAGTATTTTTAATCTA
TGTTAAATAGATAATATCTAAAAGTGTGATCTCTAGGTAGTCCTTAGTTTATTAGTACTGTACTTCAAAAAGAT

2251/2825
FIGURE 1980

KIRIFERIPIKIIKGKHRIHKKCPK

2252/2825
FIGURE 1981

GGCACGAGGGGAACGCTCCGTCTGGAACGGCGCAGGTCCCAGCAGCTGGGGTTCCCCCTCAGCCCCTGAGCAGCC
ATGTCCAACCCAGCGCCCCACCACCATATGAAGACCGCAACCCCTGTACCCAGGCCCTCTGCCCCCTGGGGGC
TATGGGCAGCCATCTGTCTGCCAGGAGGGTATCCTGCCTACCCTGGCTACCCGCAGCCTGGCTACGGTCACCCCT
GCTGGCTACCCACAGCCCATGCCCCCACCACCCGATGCCCATGAACCTACGGCCCCAGGCCATGGCTATGATGGG
GAGGAGAGAGCGGTGAGTGATAGCTTCGGGCCTGGAGAGTGGGATGACCGGAAAGTGCGACACACTTTTATCCGA
AAGGTTTACTCCATCATCTCCGTGCAGCTGCTCATCACTGTGGCCATCATTGCTATCTTCACCTTTGTGGAACCT
GTCAGCGCCTTTGTGAGGAGAAATGTGGCTGTCTACTACGTGTCTATGCTGTCTTCGTTGTCACCTACCTGATC
CTTGCCTGCTGCCAGGGACCCAGACGCCGTTTCCCATGGAACATCATTCTGCTGACCCCTTTTACTTTTGCATG
GGCTTCATGACGGGCACCATTTCCAGTATGTACCAAACCAAAGCCGTCATCATTGCAATGATCATCACTGCGGTG
GTATCCATTTAGTCACCATCTTCTGCTTTCAGACCAAGGTGGACTTCACCTCGTGACAGGCCCTTCTGTGTCTC
CTGGGAATTGTGCTCCTGGTGACTGGGATTGTCACTAGCATTGTGTCTTACTTCCAATACGTTTACTGGCTCCAC
ATGCTCTATGCTGCTCTGGGGGCCATTTGTTTACCCTGTTTCTGGCTTACGACACACAGCTGGTCTGGGGAAC
CGGAAGCACACCATCAGCCCCGAGGACTACATCACTGGCGCCCTGCAGATTTACACAGACATCATCTACATCTTC
ACCTTTGTGCTGCAGCTGATGGGGGATCGCAATTAAGGAGCAAGCCCCCATTTTACCCGATCTGGGCTCTCCC
TTCCAAGCTAGAGGGCTGGGCCCTATGACTGTGGTCTGGGCTTTAGGCCCTTTTCTTCCCCTTGAGTAACATGC
CCAGTTTCTTTCTGTCTTGGAGACAGGTGGCTCTCTGGCTATGGATGTGTGGGTACTTGGTGGGGACGGAGGA
GCTAGGGACTAACTGTTGCTCTTGGTGGGCTTGGCAGGGACTAGGCTGAAGATGTGTCTTCTCCCCGCCACCTAC
TGTATGACACCACATTCTTCTAACAGCTGGGGTTGTGAGGAATATGAAAAGAGCCTATTGATAGCTAGAAGGG
AATATGAAAGGTAGAAGTGACTTCAAGGTCACGAGGTTCCCCTCCCACCTCTGTACAGGCTTCTTGACTACGTA
GTTGGAGCTATTTCTTCCCCAGCAAAGCCAGAGAGCTTTGTCCCCGGCCTCCTGGACACATAGGCCATTATCCT
GTATTCCTTTGGCTTGGCATCTTTTAGCTCAGGAAGGTAGAAGAGATCTGTGCCCATGGGTCTCCTTGCTTCAAT
CCCTTCTTGTTCAGTGACATATGTATTGTTTATCTGGGTTAGGGATGGGGGACAGATAATAGAACGAGCAAAGT
AACCTATACAGGCCAGCATGGAACAGCATCTCCCCTGGGCTTGCTCCTGGCTTGTGACGCTATAAGACAGAGCAG
GCCACATGTGGCCATCTGCTCCCCATTCTTGAAGCTGCTGGGGCCTCCTTGCAGGCTTCTGGATCTCTGGTCAG
AGTGAACCTCTTGCTTCTGTATTTCAGGCAGCTCAGAGCAGAAAGTAAGGGGCAGAGTCATACGTGTGGCCAGGAA
GTAGCCAGGGTGAAGAGAGACTCGGTGCGGGCAGGGAGAATGCCTGGGGGTCCCTCACCTGGCTAGGGAGATACC
GAAGCCTACTGTGGTACTGAAGACTTCTGGGTTCTTTCTTCTGCTAACCAGGGAGGGTCCTAAGAGGAAGGTG
ACTTCTCTCTGTTTGTCTTAAGTTGCACTGGGGGATTCTGACTTGAGGCCCATCTCTCCAGCCAGCCACTGCCT
TCTTTGTAATATTAAGTGCCTTGAGCTGGAATGGGGAAGGGGGACAAGGGTCAGTCTGTGCGGGTGGGGGCAGAAA
TCAAATCAGCCCAAGGATATAGTTAGGATTAATTACTTAATAGAGAAATCCTAACTATATCACACAAAGGGATAC
AACTATAAATGTAATAAAATTTATGTCTAGAAGTTAAACCCAAAAAAAAAAAAAAAAAAAAA

2253/2825
FIGURE 1982

MSNPSAPPPYEDRNPLYPGPLPPGGYGQPSVLPGGYPAYPGYPQPGYGHYPAGYPQPMPPTHPMPMNYGPGHGYDG
EERAVSDSFGEWDDRKVRHTFIRKVYSIISVQLLITVAIIAIFTFVEPVSAFVRRNVAVYYVSYAVFVVTYLI
LACCQGPRRRFPWNIILLTLFTFAMGFMTGTISSMYQTKAVIIAMIITAVVSISVTIFCFQTKVDFTSCTGLFCV
LGIVLLVTGIVTSIVLYFQYVYWLHMLYAALGAICFTLFLAYDTQLVLGNRKHTISPEDYITGALQIYTDIIYIF
TFVLQLMGDRN

2254/2825
FIGURE 1983

GAAAGGTCACAGCGCGGCAGCGGGTCTGGCTGGCGGCAGCGGCGGGAGGGAGCCGAGAGACCCGAGTGCACGTGT
GGAGAAGCGGCGGCACAAGCGCGGCGGGGAGACACTCCCGCCCCACCAGACTCAAGCCCTCACTCGACTCTC
GCGGCCTTCGTTGCTCGCACAGCTCCCTGCCAGGCTAGGAGGCCGGCTTGCGGGGTTGAGTGGCCCCGAGCTAAG
GGTGC GGAGACCTAAGGGCGGCGACTACGACGGCGTTGATATCGGTGGTAACGACGGCCTCAGCAGGCCGGGAAG
ATGAAAGGTAGCCGGATCGAGCTGGGAGATGTGACACCACACAATATTAAACAGTTGAAAAGATTGAATCAGGTC
ATCTTTCCAGTCAGCTACAATGACAAGTTCTACAAGGATGTGCTGGAGGTTGGCGAGCTAGCAAACTTGCCTAT
TTCAATGATATTGCTGTAGGTGCAGTATGCTGTAGGGTGGATCATTACAGAATCAGAAGAGACTTTACATCATG
ACACTAGGATGTCTGGCACCTTACCGAAGGCTAGGAATAGGAATAAAATGTTAAATCATGTCTTAAACATCTGT
GAAAAAGATGGTACTTTTGACAACATTTATCTGCATGTCCAGATCAGCAATGAGTCGGCAATTGACTTCTACAGG
AAGTTTGGCTTTGAGATTATTGAGACAAAAGAAGAACTACTATAAGAGGATAGAGCCCGCAGATGCTCATGTGCTG
CAGAAAAACCTCAAAGTTCCCTTCTGGTCAGAATGCAGATGTGAAAAGACAGACAAC**TGA**ACAAATTACAAATGA
ACTTTCTTGCACTTGCTTGTGCGCCAAATAAAAGAGAGGCCCATTGATTCCCTCCCCACCCCAACACTTTTCTTTT
AAAGCTTTTCTCCCTCCTTGTTCTTGTTTTTCTTTCTTCTTTCTTTCTCTGAGAGTTTAACTTTTCAAGG
ACTTTAAAAAATAATCATGTTTGAATTGTTTTCTTTATTTTTGTGAGGTGGTTTGAAGGAAGGACAAGGTAGA
TCTGTTTAGTTTGCAGTTGAAGTTAGATGGTCCTAAACATTTAATTGTCAAATAATTTCAAATTTAATGTCCTG
CTTTCACATTGAAGGGCAGAGCCTACAAAACATTGTATATTTCAAAGACAAAAAGAAGCAGCAGCAGTATCTTG
TTCTCTAATTCATAGACAAGTTGAGTGTGTTTGTGGTACTTTGGGTTTTTAAACACTTTGGGATACTAATCCCTA
GACATTGCCTTCACTCCACCTTTAGTCCTTCTGAGCACTCTCTCGGGAGTTGGAACATTGTTATCCTTGTAAGAA
ATACTAAGCTTATGTTGATTTTTTAAGTAATTATATCTTCTCTTCTTGCTGGTGGGTGGGGCAGTTTGGTTTAGTG
TTATACTTTGGTCTAAGTATTTGAGTTAACTGCTTTTTTGCTAATGAGTGGGCTGGTTGTTAGCAGGTTTGT
TTCTGCTGTTGATTGTTACTAGTGGCATTAACTTTTAGAATTTGGGCTGGTGAGATTAATTTTTTTTTAATATCC
CAGCTAGAGATATGGCCTTTAACTGACCTAAAGAGGTGTGTTGIGATTAAATTTTTTCCCGTTCTTTTTCTTCA
GTAAACCCAACAATAGTCTAACCTTAAAAATGAGTTGATGTCTTATAGGTCACCTACCCCTAAATAAACCTGAA
GCAGGTGTTTTCTCTTGACATACTAAAAAATACCTAAAAGGAAGCTTAGATGGGCTGTGACACAAAAAATTCAA
TTACTGTCTAATGCCAGCTGTATAAAGTGTGGCCACTGAGCATTGATTTTATAGGAAAAAATAGTATTTTT
GAGAATAACATAGCTGTGCTATTGCACATCTGTTGGAGGACATCCAGATTGCTTATACTCAGTGCCTGTGATA
TTGAGTTTAAAGGATTTGAGGCAGGGGTAATTATTAACATATTGCTTCTATTCTTGAAAAATAGAAGTGTA
TGTTAATAATACAAATGTCACTGTGACCTCCTCCACTGTGAGGACTGGTTTATGCCAGATCATTTTCCGGCACAC
ACGGAGTGGCTTTGACAGATTGATAACTTTGTAAGATGGGAGACATCTGAAATATTCATGTTTTCTTTTGTAGT
CCCATCTCCACTATTTAGAAATGTTCTCAGACTTTAAATAATGCACAGGGCTTGAGCTTCTGTCACTTTGACTT
TAAAAGGAAGTTTCATTCAATTTATCCTCTTATGTAAAATTGCGGTATAAAGTCTCATTTCCAAATATGTTAAA
TGACAAAATTATTTTATAAAATGTTTATGCACACTTTATAACCTTAAGTTTTTATTTGAGAATGTGAAAGTACAA
AGTGCAGTAGACTTCAACAATCTTGAGTGCCAAGAATAACAGAAAAAGAAGACAGTTGATGAATGAGTTTATA
GGGTCTAATCTTAAGATGGTAAAAATGTAGAAAGACCTTGCTGGTTTTTTGGGGGTATTCGTTTCTTAAACAAT
CCAAATCTAAGCTTAGAAGAAAAGTTTAGCGTTAAGCACCTTTATCTTCATGAATAAGCTTCAGCTTGCTCTTG
CAAGAGAAGAGTGCTTGAGTTACAGAAGGCATAAGTAGTTTGAAGAATGCAGCAGCCTTTTTGTAAACTTCCCAG
ATATCAAAATAGACTTTGATATATAAATGGTTTTCTGAGATGACACTGCCTCTATTTCTATAACCATTTACCTG
GACTATCTAACCAGTCCTATGAATGTATCCCTAAATGTGGTTATTGAAAACCTAATAGCTGCCTCATGACAAGTA
CATGTTATTTAAGGAGGAAAAAATATTAATTTTTGAATTGAGTGTGTAGGCTCCCTATCATTATATATAGAGTTT
CTTTTCCACGGTAGTCAGTGACTTAACTGAATTGTAAATGTTTGTAAAGGGTTAATTGTCTTACATCAAACCTT
AGTTAAATAATTCCATCCACTTATGGAGGAGGAGGAGAAATGTGGAAGAGGTAAAAAGCTGGGCACAAGTTCATAT
GCCTATGAGTCAGTAAAGACTGAAGTAATGTCTATGTTGAGCTGGTTATTTTGATATATGATAATAATTATCTT
TGAAGTAGAACAATTCTGTTAACTGGAAAAATCACAGGATATATCCATCATATTTTTTCAGGACAGATAGTTTTTAC
TGTGGGGCAAATAGGTTAAATTAACACTATGTTAGTTGCATTTAGGTTTTAAAGCAAAGAATCTGTAGAGAAATC
TATGCAATATATAGTTTGTCCAGATTAGCTTTCATTTGGGGAATGAAGTCTGAAATATCTAAAGCAGTTTACTC
ATCAATTGAAAAGTCTCCAAAAAGAGAACTATTGGGAAACCATGGTGTGGTGGTGGAAAAGAAAAGCTCCCTCA
GTTTTTGGAGGGAATAACTTAAAAAATACTTAAATGGCTAAGTTTACTTGGTGCAGTTAAGAATTAACCTTGT
CAATTTTAACATTGCTGTTACATCTGAAATAAACTTATGTGATGTTCTGGT

2255/2825

FIGURE 1984

MKGSRIELGDVTPHNIKQLKRLNQVIFPVSYNDKFYKDVLEVGE
LAKLAYFN
DIAVGAVCCRVDHSQNQKRLYIM
TLGCLAPYRRLGIGTKMLNHVLNICEKDGTFDNIYLVH
VQISNES
AIDFYRKFGFEIIETKKNYKRIEPADAHVL
QKNLKVP
SGQNADVQKTDN

2256/2825
FIGURE 1985A

GCTACAATCCATCTGGTCTCCTCCAGCTCCTTCTTTCTGCAAC**ATG**GGGAAGAAACAAACTCCTTCATCCAAGTCT
GGTTCTTCTCCTCTTGGTCCTCCTGCCCCACAGACGCCTCAGTCTCTGGAAAACCGCAGTATATGGTTCTGGTCCC
CTCCCTGCTCCACACTGAGACCACTGAGAAGGGCTGTGTCTTCTGAGCTACCTGAATGAGACAGTGAAGTGAAG
TGCTTCCTTGGAGTCTGTGAGGGGAAAACAGGAGCCTCTTCACTGACCTGGAGGCGGAGAAATGACGTACTCCACTG
TGTCGCCTTCGCTGTCCCAAAGTCTTCATCCAATGAGGAGGTAATGTTCTCACTGTCCAAGTGAAAGGACCAAC
CCAAGAATTTAAGAAGCGGACCACAGTGATGGTTAAGAACGAGGACAGTCTGGTCTTTGTCCAGACAGACAAATC
AATCTACAAACCAGGGCAGACAGTGAAATTTCTGTGTGTCTCCATGGATGAAAACCTTTCACCCCTGAATGAGTT
GATTCCACTAGTATACATTGAGGATCCCAAAGGAAATCGCATCGACAATGGCAGAGTTTCCAGTTAGAGGGTGG
CCTCAAGCAATTTTCTTTTCCCTCTCATCAGAGCCCTTCCAGGGCTCCTACAAGGTGGTGGTACAGAAGAAATC
AGGTGGAAGGACAGAGCACCCCTTTCACCGTGGAGGAATTTGTTCTTCCCAAGTTTGAAGTACAAGTAACAGTGCC
AAAGATAATCACCATCTTGAAGAAGAGATGAATGTATCAGTGTGTGGCCTATACACATATGGGAAGCCTGTCCC
TGGACATGTGACTGTGAGCATTTCAGAAAAGTATAGTGACGCTTCCGACTGCCACGGTGAAGATTCACAGGCTTT
CTGTGAGAAATTCAGTGGACAGCTAAACAGCCATGGCTGCTTCTATCAGCAAGTAAAAACCAAGGTCTTCCAGCT
GAAGAGGAAGGAGTATGAAATGAAACTTCACACTGAGGCCAGATCCAAGAAGAAGGAACAGTGGTGGAAATTGAC
TGGAAGGCAGTCCAGTGAAATCACAAGAACCATAACCAAACCTCTCATTGTGAAAGTGGACTCACACTTTCGACA
GGGAATTCCTTCTTTTGGGCAGGTGCGCCTAGTAGATGGGAAAGGCGTCCCTATACCAAATAAAGTCATATTAT
CAGAGGAAATGAAGCAAACCTATTACTCCAATGCTACCACGGATGAGCATGGCCTTGTACAGTTCTCTATCAACAC
CACCAACGTTATGGGTACCTCTCTTACTGTTAGGGTCAATTACAAGGATCGTAGTCCCTGTTACGGCTACCAGTG
GGTGTGAGAAGAACACGAAGAGGCACATCACACTGCTTATCTTGTGTTCTCCCCAAGCAAGAGCTTTGTCCACCT
TGAGCCCATGTCTCATGAACTACCTGTGGCCATACTCAGACAGTCCAGGCACATTATATTCTGAATGGAGGCAC
CCTGCTGGGGCTGAAGAAGCTCTCCTTTTATTATCTGATAATGGCAAAGGGAGGCATTGTCCGAACCTGGGACTCA
TGGACTGCTTGTGAAGCAGGAAGACATGAAGGGCCATTTTTCATCTCAATCCCTGTGAAGTCAGACATTGCTCC
TGTCGCTCGGTTGCTCATCTATGCTGTTTTACCTACCGGGGACGTGATTGGGGATTCTGCAAAAATATGATGTTGA
AAATTGTCTGGCCAACAAGGTGGATTTGAGCTTCAGCCCATCACAAAGTCTCCCAGCCTCACACGCCCACCTGCG
AGTCACAGCGGCTCCTCAGTCCGTCTGCGCCCTCCGTGCTGTGGACCAAAGCGTGCTGCTCATGAAGCCTGATGC
TGAGCTCTCGGCGTCTCGGTTTACAACCTGCTACCAGAAAAGGACCTCACTGGCTTCCCTGGGCCTTTGAATGA
CCAGGACGATGAAGACTGCATCAATCGTCATAATGTCTATATTAATGGAATCACATATACTCCAGTATCAAGTAC
AAATGAAAAGGATATGTACAGCTTCCCTAGAGGACATGGGCTTAAAGGCATTACCAACTCAAAGATTCTGTAAACC
CAAAATGTGTCCACAGCTTCAACAGTATGAAATGCATGGACCTGAAGGTCTACGTGTAGGTTTTTATGAGTCAGA
TGTAATGGGAAGAGGCCATGCACGCCTGGTGCATGTTGAAGAGCCTCACACGGAGACCGTACGAAAGTACTTCCC
TGAGACATGGATCTGGGATTTGGTGGTGGTAAACTCAGCAGGGGTGGCTGAGGTAGGAGTAACAGTCCCTGACAC
CATCACCGAGTGAAGGCAGGGGCCCTTCTGCCTGTCTGAAGATGCTGGACTTGGTATCTCTTCCACTGCCTCTCT
CCGAGCCTTCCAGCCCTTCTTTGTGGAGCTTACAATGCCTTACTCTGTGATTCTGTGGAGAGGCCTTCACACTCAA
GGCCACGGTCTTAACTACCTTCCCAAATGCATCCGGGTGAGTGTGAGCTGGAAGCCTCTCCCGCCTTCCCTTGC
TGTCCCAGTGGAGAAGGAACAAGCGCCTCACTGCATCTGTGCAAACGGGCGGCAAACCTGTGTCTGGGCAGTAAC
CCCAAAGTCATTAGGAAATGTGAATTTCACTGTGAGCGCAGAGGCACTAGAGTCTCAAGAGCTGTGTGGGACTGA
GGTGCCTTCAGTTCTGAACACGGAAGGAAAGACACAGTCATCAAGCCTCTGTTGGTTGAACCTGAAGGACTAGA
GAAGGAAACAACATTCAACTCCCTACTTTGTCCATCAGGTGGTGGTGGTCTGAAGAATTATCCCTGAAACTGCC
ACCAAATGTGGTAGAAGAATCTGCCCAGCTTCTGTCTCAGTTTTGGGAGACATATTAGGCTCTGCCATGCAAAA
CACACAAAATCTTCTCCAGATGCCCTATGGCTGTGGAGAGCAGAATATGGTCCTCTTTGCTCCTAACATCTATGT
ACTGGATTATCTAAATGAAACACAGCAGCTTACTCCAGAGGTCAAGTCCAAGGCCATTGGCTATCTCAACACTGG
TTACCAGAGACAGTTGAACTACAAACACTATGATGGCTCCTACAGCACCTTTGGGGAGCGATATGGCAGGAACCA
GGGCAACACCTGGCTCACAGCCTTTGTTCTGAAGACTTTTGCCCAAGCTCGAGCCTACATCTTCATCGATGAAGC
ACACATTACCCAAGCCCTCATATGGCTCTCCAGAGGCAGAAGGACAATGGCTGTTTTAGGAGCTCTGGGTCACT
GCTCAACAATGCCATAAAGGGAGGAGTAGAAGATGAAGTGACCCTCTCCGCCTATATCACCATCGCCCTTCTGGA
GATTCTCTCACAGTCACTCACCTGTTGTCCGCAATGCCCTGTTTTGCCTGGAGTCAGCCTGGAAGACAGCACA
AGAAGGGGACCATGGCAGCCATGTATATACCAAAGCACTGCTGGCCTATGCTTTTGCCTGGCAGGTAACCAGGA
CAAGAGGAAGGAAGTACTCAAGTCACTTAATGAGGAAGCTGTGAAGAAAGACAACCTCTGTCCATTGGGAGCGCCC

2257/2825
FIGURE 1985B

TCAGAAACCCAAGGCACCAGTGGGGCATTTTTACGAACCCAGGCTCCCTCTGCTGAGGTGGAGATGACATCCTA
TGTGCTCCTCGCTTATCTCACGGCCCAGCCAGCCCCAACCTCGGAGGACCTGACCTCTGCAACCAACATCGTGAA
GTGGATCACGAAGCAGCAGAATGCCCAGGGCGGTTTCTCCTCCACCCAGGACACAGTGGTGGCTCTCCATGCTCT
GTCCAAATATGGAGCCGCCACATTTACCAGGACTGGGAAGGCTGCACAGGTGACTATCCAGTCTTCAGGGACATT
TTCCAGCAAATTCCAAGTGGACAACAACAATCGCCTGTTACTGCAGCAGGTCTCATTGCCAGAGCTGCCTGGGGA
ATACAGCATGAAAGTGACAGGAGAAGGATGTGTCTACCTCCAGACCTCCTTGAAATACAATATTCTCCCAGAAAA
GGAAGAGTTCCCCTTTTGCTTTAGGAGTGCAGACTCTGCCTCAAACCTTGTGATGAACCCAAAGCCCACACCAGCTT
CCAAATCTCCCTAAGTGTGAGTTACACAGGGAGCCGCTCTGCCTCCAACATGGCGATCGTTGATGTGAAGATGGT
CTCTGGCTTCATTCCCCTGAAGCCAACAGTGAAAATGCTTGAAAGATCTAACCATGTGAGCCGGACAGAAGTCAG
CAGCAACCATGTCTTGATTTACCTTGATAAGGTGTCAAATCAGACACTGAGCTTGTTCTTCACGGTTCTGCAAGA
TGTCACAGTAAGAGATCTCAAACCAGCCATAGTGAAAGTCTATGATTACTACGAGACGGATGAGTTTGCAATCGC
TGAGTACAATGCTCCTTGACAGCAAAGATCTTGAAATGCTTGAAGACCACAAGGCTGAAAAGTGCTTTGCTGGAG
TCCTGTTCTCTGAGCTCCACAGAAGACACGTGTTTTTGTATCTTTAAAGACTTGATGAATAAACACTTTTTCTGG
TC

2258/2825
FIGURE 1986

MGKNKLLHPSLVLLLLLVLLPTDASVSGKPQYMLVPSLLHTETTEKGCVLLSYLNETVTVSASLESVRGNRSLFT
DLEAENDVLHCVAFAPKSSSNEEVMFLTVQVKGPTQEFKKRTTVMVKNEDSLVFVQTDKSIYKPGQTVKFRVVS
MDENFHPNLNELIPLVYIQDPKGNRIAQWQSFQLEGGGLKQFSFPLSSEPFQGSYKVVVQKKSGGRTEHPFTVEEFV
LPKFEVQVTVPKIITILEEEMNVSVCGLYTYGKPVPGHVTVSICRKYS DASDCHGEDSQAFCEKFSGQLNSHGCF
YQQVKTKVFLKRKEYEMKLHTEAQIQEEGTVVVELTGRQSSEITRTITKLSFVKVDSHFQGIPIFFGQVRLVDGK
GVPIPNKVIFIRGNEANYYSNATDEHGLVQFSINTTNVMGTSLTVRVNYKDRSPCYGYQWVSEEHEEAHHTAYL
VFSPSKSFVHLEPMSHELPCGHTQTVQAHYILNGGTLGLKKLSFYLLIMAKGGIVRTGTHGLLVKQEDMKGHFS
ISIPVKS DIAPVARLLIYAVLPTGDVIGDS AKYDVENCLANKVDLSFSPSQSLPASHAHLRVTAAPQSVCALRAV
DQSVLLMKPDAELSASSVYNLLPEKDLTGFPGLNDQDDEDCINRHNVIYINGITYTPVSSSTNEKDMYSFLEDMGL
KAFTNSKIRKPKMCPQLQQYEMHGPEGLRVGFYESDVMGRGHARLVHVEEPHTETVRKYFPETWIWDLVVVNSAG
VAEVGVTVPDTITTEWKAGAFCLSEDAGLGISSTASLRAFQPPFFVELTMPYSVIRGEAFTLKATVLNLYPKCIRVS
VQLEASPAFLAVPVEKEQAPHICANGRQTVSWAVTPKSLGNVNFTVSAEALESQELCGTEVPSVPEHGRKDTV
KPLLVEPEGLEKETTFNSLLCPSGGEVSEELSLKLPPNVVEESARASVSVLGDILGSAMQNTQNLQMPYGCGEQ
NMVLFAPNIYVLDYLNQQLTPEVKSKAIGYLNQYQRLNYKHYDGSYSTFGERYGRNQNTWLTAFLVKTFA
QARAYIFIDEAHITQALIWLSQLQKDNCGFRSSGSLNNAIKGGVEDEVTL SAYITIALLEIPLTVTHPVVRNAL
FCLES AWKTAQEGDHGSHVYTKALLAYAFALAGNQDKRKEVLKSLNEEAVKKDNSVHWERPQKPKAPVGHFYEPQ
APSAEVEMTSYVLLAYLTAQPAPTS EDLTSATNIVKWITKQONAQQGFSSTQDTVVALHALSKYGAATFTRTGKA
AQVTIQSSGTFSSKFQVDNNNRLLLQQVSLPELPGEYS MKVTGEGCVYLQTS LKYNILPEKEEFPFALGVQTLPO
TCDEPKAHTSFQISLSVSYTGSRASNMAIVDVKMVSGFIPLKPTVKMLERSNHVSRTEVSSNHVLIYLDKVSNO
TSLFFFTVLQDVPVRDLKPAIVKVYDYYETDEF AIAEYNAPCSKDLGNA

2259/2825
FIGURE 1987A

CTCCTCCCCATCCTCTCCCTCTGTCCCTCTGTCCCTCTGACCCTGCACTGTCCCAGCACCC**AT**GGGACCCACCTCA
GGTCCCAGCCTGCTGCTCCTGCTACTAACCCACCTCCCCCTGGCTCTGGGGAGTCCCATGTACTCTATCATCACC
CCCAACATCTTGCGGCTGGAGAGCGAGGAGACCATGGTGCTGGAGGGCCACGACGCGCAAGGGGATGTTCCAGTC
ACTGTTACTGTCCACGACTTCCCAGGCAAAAACTAGTGCTGTCCAGTGAGAAGACTGTGCTGACCCCTGCCACC
AACCACATGGGCAACGTCACTTCACGATCCCAGCCAACAGGGAGTTCAAGTCAGAAAAGGGGCGCAACAAGTTC
GTGACCGTGACAGGCCACCTTCGGGACCCAAGTGGTGAGAAAGTGGTGCTGGTCAGCCTGCAGAGCGGGTACCTC
TTCATCCAGACAGACAAGACCATCTACACCCCTGGCTCCACAGTTCTCTATCGGATCTTCACCGTCAACCACAAG
CTGCTACCCGTGGGCCCGGACGGTCATGGTCAACATTGAGAACCCGGAAGGCATCCCGGTCAAGCAGGACTCCTTG
TCTTCTCAGAACCAGCTTGGCGTCTTGCCCTTGCTTGGGACATTCCGGAACTCGTCAACATGGGCCAGTGGAAG
ATCCGAGCCTACTATGAAAACCTACCCACAGCAGGTCTTCTCCACTGAGTTTGAGGTGAAGGAGTACGTGCTGCCC
AGTTTCGAGGTCAATAGTGAGCCTACAGAGAAATTCTACTACATCTATAACGAGAAGGGCCTGGAGGTACCATC
ACCGCCAGGTTCTCTACGGGAAGAAAGTGGAGGGAAGTGCCTTTGTATCTTCGGGATCCAGGATGGCGAACAG
AGGATTTCCCTGCCTGAATCCCTCAAGCGCATTCGATTGAGGATGGCTCGGGGGAGGTTGTGCTGAGCCGGAAG
GTACTGCTGGACGGGGTGCAGAACCTCCGAGCAGAAGACCTGGTGGGGAAGTCTTTGTACGTGTCTGCCACCGTC
ATCTTGCACTCAGGCAGTGACATGGTGACGGCAGAGCGCAGCGGGATCCCCATCGTGACCTCTCCCTACCAGATC
CACTTCACCAAGACACCCAAGTACTTCAAACCAGGAATGCCCTTTGACCTCATGGTGTTTCGTGACGAACCCTGAT
GGCTCTCCAGCCTACCGAGTCCCCGTGGCAGTCCAGGGCGAGGACACTGTGCAGTCTCTAACCCAGGGAGATGGC
GTGGCCAAACTCAGCATCAACACACACCCCGAGCCAGAAGCCCTTGAGCATCACGGTGCGCACGAAGAAGCAGGAG
CTCTCGGAGGCAGAGCAGGCTACCAGGACCATGCAGGCTCTGCCCTACAGCACCGTGGGCAACTCCAACAATTAC
CTGCATCTCTCAGTGCTACGTACAGAGCTCAGACCCGGGGAGACCCTCAACGTCAAACTTCTCTCGCAATGGAC
CGCGCCACGAGGCCAAGATCCGCTACTACACCTACCTGATCATGAACAAGGGCAGGCTGTTGAAGGCGGGACGC
CAGGTGCGAGAGCCCGGCCAGGACCTGGTGGTGCTGCCCTGTCCATCACCAACCGACTTCATCCCTTCTTCCGC
CTGGTGGCGTACTACACGTGATCGGTGCCAGCGGCCAGAGGGAGGTGGTGGCCGACTCCGTGTGGGTGGACGTC
AAGGACTCCTGCGTGGGCTCGCTGGTGGTAAAAAGCGGCCAGTCAGAAGACCGGCAGCCTGTACCTGGGCAGCAG
ATGACCTGAAGATAGAGGGTGACCACGGGGCCCGGGTGGTACTGGTGGCCGTGGACAAGGGCGTGTTCTGTCTG
AATAAGAAGAACAACCTGACGCAGAGTAAGATCTGGGACGTGGTGAGAAAGGCAGACATCGGCTGCACCCCGGGC
AGTGGGAAGGATTACGCCGGTGTCTTCTCCGACGCAGGGCTGACCTTCACGAGCAGCAGTGCCAGCAGACCGCC
CAGAGGGCAGAACTTCAGTGCCCGCAGCCAGCCCGCCGCGACGCCGTTCCGTGCAGCTCACGGAGAAGCGAATG
GACAAAGTCGGCAAGTACCCCAAGGAGCTGCGCAAGTGCTGCGAGGACGGCATGCGGGAGAACCCCATGAGGTTT
TCGTGCCAGCGCCGACCCGTTTCTATCTCCCTGGGCGAGGCGTGCAAGAAGGTCTTCTGGACTGCTGCAACTAC
ATCACAGAGCTGCGGCGGCAGCACGCGCGGGCCAGCCACCTGGGCCTGGCCAGGAGTAACCTGGATGAGGACATC
ATTGCAGAAGAGAATCGTTTCCGAAGTGAGTTCCAGAGAGCTGGCTGTGGAACGTTGAGGACTTGAAAGAG
CCACCGAAAAATGGAATCTCTACGAAGCTCATGAATATATTTTTGAAAGACTCCATCACACGTTGGGAGATTCTG
GCTGTACGATGTGCGACAAGAAAGGGATCTGTGTGGCAGACCCCTTCGAGGTACAGTAATGCAGGACTTCTTC
ATCGACCTGCGGCTACCTACTCTGTTGTTGAAACGAGCAGGTGGAATCCGAGCCGTTCTCTACAATTACCGG
CAGAACCAAGAGCTCAAGGTGAGGTGGAATACTCCACAATCCAGCCTTCTGCAGCCTGGCCACCACCAAGAGG
CGTCACCAGCAGACCGTAACCATCCCCCAAGTCCCTCGTTGTCCGTTCCATATGTCATCGTGCCGCTAAAGACC
GGCCTGCAGGAAGTGGAAGTCAAGGCTGCCGTCTACCATCATTTTCATCAGTGACGGTGTGAGGAAGTCCCTGAAG
GTCGTGCCGGAAGGAATCAGAATGAACAAAACCTGTGGCTGTTGCGACCCCTGGATCCAGAACGCCTGGGCCGTGAA
GGAGTGCGAAGAGGACATCCACCTGCAGACCTCAGTGACCAAGTCCCGGACACCGAGTCTGAGACCAGAATT
CTCCTGCAAGGGACCCAGTGGCCAGATGACAGAGGATGCCGTGACGCGGAACGGCTGAAGCACCTCATTTGTG
ACCCCTCGGGCTGCGGGGAACAGAACATGATCGGCATGACGCCCACGGTCATCGCTGTGATTACCTGGATGAA
ACGGAGCAGTGGGAGAAGTTGCGCCTAGAGAAGCGGCAGGGGGCCTTGAGGCTCATCAAGAAGGGGTACACCCAG
CAGCTGGCCTTCAGACAACCCAGCTCTGCCTTTGCGGCCCTTCGTGAAACGGGCACCCAGCACCTGGCTGACCGCC
TACGTGGTCAAGGTCTTCTCTCTGGCTGTCAACCTCATCGCCATCGACTCCCAAGTCTCTGCGGGGCTGTAA
TGGCTGATCCTGGAGAAGCAGAAGCCCGACGGGGTCTTCCAGGAGGATGCGCCCGTGATACCAAGAAATGATT
GGTGGATTACGGAACAACAACGAGAAAGACATGGCCCTCACGGCCTTGTCTCATCTCGCTGCAGGAGGCTAAA
GATATTTGCGAGGAGCAGGTCAACAGCCTGCCAGGCAGCATCACTAAAGCAGGAGACTTCTTGAAGCCAACCTAC

2260/2825
FIGURE 1987B

ATGAACCTACAGAGATCCTACACTGTGGCCATTGCTGGCTATGCTCTGGCCCAGATGGGCAGGCTGAAGGGGCCT
CTTCTTAACAAATTTCTGACCACAGCCAAAGATAAGAACCGCTGGGAGGACCCTGGTAAGCAGCTCTACAACGTG
GAGGCCACATCCTATGCCCTCTTGGCCCTACTGCAGCTAAAAGACTTTGACTTTGTGCCTCCCGTCGTGCGTTGG
CTCAATGAACAGAGATACTACGGTGGTGGCTATGGCTCTACCCAGGCCACCTTCATGGTGTTCCAAGCCTTGGCT
CAATACCAAAGGACGCCCCCTGACCACCAGGAAGTGAACCTTGATGTGTCCCTCCAAGTGGCCAGCCGACAGCTCC
AAGATCACCCACCGTATCCACTGGGAATCTGCCAGCCTCCTGCGATCAGAAGAGACCAAGGAAAATGAGGGTTTC
ACAGTCACAGCTGAAGGAAAAGGCCAAGGCACCTTGTCGGTGGTGACAATGTACCATGCTAAGGCCAAAGATCAA
CTCACCTGTAATAAAATTCGACCTCAAGGTCACCATAAAACCAGCACCGGAAACAGAAAAGAGGCCTCAGGATGCC
AAGAACACTATGATCCTTGAGATCTGTACCAGGTACCGGGGAGACCAGGATGCCACTATGTCTATATTGGACATA
TCCATGATGACTGGCTTTGCTCCAGACACAGATGACCTGAAGCAGCTGGCCAATGGTGTTGACAGATACATCTCC
AAGTATGAGCTGGACAAAGCCTTCTCCGATAGGAACACCCTCATCATCTACCTGGACAAGGTCTCACACTCTGAG
GATGACTGTCTAGCTTTCAAAGTTCACCAATACTTTAATGTAGAGCTTATCCAGCCTGGAGCAGTCAAGGTCTAC
GCCTATTACAACCTGGAGGAAAGCTGTACCCGTTCTACCATCCGAAAAGGAGGATGGAAAGCTGAACAAGCTC
TGCCGTGATGAAGTGTGCCGCTGTGCTGAGGAGAATTGCTTCATACAAAAGTCGGATGACAAGGTCACCCTGGAA
GAACGGCTGGACAAGGCCTGTGAGCCAGGAGTGGACTATGTGTACAAGACCCGACTGGTCAAGGTTTCACTGTCC
AATGACTTTGACGAGTACATCATGGCCATTGAGCAGACCATCAAGTCAGGCTCGGATGAGGTGCAGGTTGGACAG
CAGCGCACGTTTCATCAGCCCCATCAAGTGCAGAGAAGCCCTGAAGCTGGAGGAGAAGAAACTACCTCATGTGG
GGTCTCTCTCCGATTTCTGGGGAGAGAAGCCCAACCTCAGCTACATCATCGGGAAGGACACTTGGGTGGAGCAC
TGGCCTGAGGAGGACGAATGCCAAGACGAAGAGAACCAGAAACAATGCCAGGACCTCGGCGCCTTCACCGAGAGC
ATGGTTGTCTTTGGGTGCCCAACTTGACCACACCCCCATTCC

2261/2825
FIGURE 1988

MGPTSGPSLLLLLLTHLPLALGSPMYSIITPNILRLESEETMVLEAHDAQGDVPVTVTVHDFPGKKLVLSSEKTV
LTPATNHMGNVFTFTIPANREFKSEKGRNKFVTVQATFGTQVVEKVVLVSLQSGYLFIQTDKTIYTPGSTVLYRIF
TVNHKLLPVGRTVMVNIENPEGIPVKQDSLSSQNQLGVLP LSWDIPELVNMGQWKIRAYYENSPQQVFSTEFEVK
EYVLP SFEVIVEPTEKFYIYNEKGLEVTITARFLYGKKVEGTAFVIFGIQDGEQRI SLPESLKRIPIEDGSGEV
VLSRKVL LDGVQNLRAEDLVGKSLYVSATVILHSGSDMVQAERSGIPITVSPYQIHFTKTPKYFKPGMPFDLMVF
VTNPDGSPAYRVPVAVQGEDTVQSLTQGDGVAKLSINTHPSQKPLSITVTRTKQELSEAEQATR TMQALPYSTVG
NSNNYLHLSVLRTEL RPGETLNVN FLLRMDRAHEAKIRYYTYLIMNKGRLKAGRQVREPGQDLVVLPLSIT TDF
IPSFRLVAYYTLIGASGQREV VADSVWVDVKDSCVGS LVVKSGQSEDRQPVPGQMTL KIEGDHGARVVLVAVDK
GVFVLNKKNKLTQSKIWDVVEKADIGCTPGSGKDYAGVFS DAGLTFTSSSGQQT AQRAELQCPQPAARRRRSVQL
TEKRMDKVGKYPKELRKCCEDGMRENPMRFSCQRRTRFISLGEACKKVFLDCCNYITELRRQHARASHLGLARSN
LDEDI IAEENIVSRSEFPESWLWNVEDLKEPPKNGISTKLMNIFLKDSITTWEILAVSMSDKKGICVADPF ETV
MQDFFIDRLRPYSVVRNEQVEIRAVLYNYRQNQELKVRVELLHNPAFC SLATTKR RHQQT VTTIPPKSSLSVPYVI
VPLKTGLQEVEVKA AAVYHHFISDGVRSLSKV VPEGIRMNKTAVVRTL DPERLGREGVQKEDIPPADLSDQVPDTE
SETRILLQGTPVAQMTEDAVDAERLKH LIVTPSGCGEQNMIGMTPTVIAVHYLDETEQWEKFGLEKRQGALELIK
KGYTQQLAFRQPSSAFAAFVKRAPSTWLTAYVVKVFS LAVNLI AIDSQVLCGAVKWLILEKQKPDGVFQEDAPVI
HQEMIGGLRNNNEKDMALTA FVLISLQEAKDICEEQVNSLPGSITKAGDFLEANYMNLQRSYTVAIAGYAL AQMG
RLKGPLL NKFLT TAKDKNRWEDPGKQLYNVEATSYALLALLQLKDFDFVPPVVRWLNEQRY YGGYGSTQATFMV
FQALAQYQKDAPDHQELNLDVSLQLPSRSSKITHRHWE SASLLRSEETKENEGFTVTAEGKGQGTLSVVTMYHA
KAKDQLTCNKFDLKVTIKPAPETEKRPQDAKNTMILEICTRYRGDQDATMSILDISMMTGFAPD TDDLKQLANGV
DRYISKYELDKAFSDRNTLIIYLDKVSHSEDDCLAFKVHQYFNVELIQPGAVKVYAYYNLEESCTRFYHPEKEDG
KLNKLCRDELCRAEENCFIQKSDDKVTLEERLDKACEPGVDYVYKTRLVKVQLSNDFDEYIMAEQTIKSGSDE
VQVGQQRTFISPIKCREALKLEEKHYLMWGLSSDFWGEKPNLSYIIGKDTWVEHWPEEDEQCQDEENQKQCQDLG
AFTESMVVFGCPN

2262/2825
FIGURE 1989

GGGGGGAAACGGAAGTGAGCGGCGGGGTCGACTGACGGTAACGGGGCAGAGAGGCTGTTTCGCAGAGCTGCGGAAG
ATGAATGCCAGAGGACTTGGATCTGAGCTAAAGGACAGTATTCCAGTTACTGAACTTTTCAGCAAGTGGACCTTTT
GAAAGTCATGATCTTCTTCGAAAGGTTTTTCTTGTGTGAAAAATGAACTTTTGCCTAGTCATCCCCTTGAATTA
TCAGAAAAAATTTCCAGCTCAACCAAGATAAAATGAATTTTTCCACACTGAGAAACATTCAGGGTCTATTTGCT
CCGCTAAAATTACAGATGGAATTCAAGGCAGTGCAGCAGGTTTCAGCGTCTTCCATTTCTTTCAAGCTCAAATCTT
TCACTGGATGTTTTGAGGGGTAATGATGAGACTATTGGATTTGAGGATATTCTTAATGATCCATCACAAAGCGAA
GTCATGGGAGAGCCACACTTGATGGTGAATATAAACTTGGTTTTACTGTAATAGTGTGCTGTTTCATGGAAACCGA
GGGCTGCATCTTGTATATAGTCATCTTTGTACTGTAATTTGATGTACACAACATTAAAAGTACTGACACCTGAGA
ATTTCTGCTCAAGTAGTATCAGTGATCATTTAAAAATTTGGAGGGGTCCTTTGGTTTACAGCCATGTGACAATTAAA
AGCACTAAAGGGAGATCATGTTAAAGCTCTTAATTTATATTAAAACAGTAGCCTTTGTCTTTAAAAAAGTTGTTG
CTCATGAATATTATAAAATGATCTACAGGTTTCAATTCAACCTGTTTCTAGGTTTTTTTGTAATTTAGTTTTGA
TTAAGCATTATAAGCATTGAGTCTATAAACTTTATAGTAGCATCTTTCAGAATAAACATTTTAAATTGATTTCA
GTGGCAACTCTCAAATTGATTACAATATGAGATATATCAGTGTCTCCATTAACTCATAAGAATAATATTTAC
TGTGTCAGTGCTATTTTAGGATTATAGTTATTGTTGATTATTTTCAGGTTGAAAAGTAGAAGTTCCAAGGTTTTG
ATTTTGGTCTGGTCTTTAAGTGAAAAATTAAAGCAACCAGTAGATGTAGGTTAACTTTTACTTCATAGACTTAA
TATGTGATTAATATATTGCCAAGCAACACTGTAAAGAAAAGTAAAACATTTTTTTCTTGTTCTTAATTTATAT
ATTACAAGATACTGTAAGGTATTCTTTATGAAGTTGATATATAAAAATTTACATTTTTTAGAACATTAGTGAATGG
ATCATCTTTTACAATTAAAAGTATATTTTGATTATCAGTTTCTTAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

2263/2825
FIGURE 1990

MNARGLGSELKDSIPVTELSASGPFESHDLRLKGFSCVKNELLPSHPLEELSEKNFQLNQDKMNFSTLRNIQGLFA
PLKLQMEFKAVQQVQRLPFLSSSNLSLDVLRGNDETIGFEDILNDPSQSEVMGEPHLMVEYKLGLL

2264/2825
FIGURE 1991

CGGGAGCGTGGGGTATCTCGAGGTGCCGGGTGTCAGGCGCTCAGGGGCGCTAGGGTTTGAGGCCTGCTTTCTGCT
CGCGCCAGCAGAGCACTACCTGAGGCAGCGAGGCGCAGCGAGCCTAGCCTCCCCGCGCCCTGGGCAGTGTGGCCA
TGGGAGAATCAGGTGTTGACGCCGCATGTCTACTGGGCTCAGCGACACCGCGAGCTATATCTGCGCGTGGAGCTGA
GTGACGTACAGAACCCTGCCATCAGCATCACTGAAAACGTGCTGCATTTCAAAGCTCAAGGACATGGTGCCAAAG
GAGACAATGTCTATGAATTTACCTGGAGTTCTTAGACCTTGTGAAACCAGAGCCTGTTTACAAACTGACCCAGA
GGCAGGTAAACATTACAGTACAGAAGAAAGTGAGTCAGTGGTGGGAGAGACTCACAAAGCAGGAAAAGCGACCAC
TGTTTTTGGCTCCTGACTTTGATCGTTGGCTGGATGAATCTGATGCGGAAATGGAGCTCAGAGCTAAGGAAGAAG
AGCGCCTAAATAAACTCCGACTGGAAAGCGAAGGCTCTCCTGAAACTCTTACAAACTTAAGGAAAGGATACCTGT
TTATGTATAATCTTGTGCAATTCCTGGGATTCTCCTGGATCTTTGTCAACCTGACTGTGCGATTCTGTATCTTGG
GAAAAGAGTCCTTTTATGACACATTCCATACTGTGGCTGACATGATGTATTTCTGCCAGATGCTGGCAGTTGTGG
AAACTATCAATGCAGCAATTGGAGTCACTACGTCACCGGTGCTGCCTTCTCTGATCCAGCTTCTTGGAAGAAATT
TTATTTTGTATCATCTTTGGCACCATGGAAGAAATGCAGAACAAAGCTGTGGTTTTCTTTGTGTTTTATTTGT
GGAGTGCAATTGAAATTTTCAGGTACTCTTTCTACATGCTGACGTGCATTGACATGGATTGGAAGGTGCTCACAT
GGCTTCGTTACACTCTGTGGATTCCCTTATATCCACTGGGATGTTTGGTGGAAGCTGTCTCAGTGATTCAGTCCA
TTCCAATATTCAATGAGACCGGACGATTCAAGTTTCACATTGCCATATCCAGTGAAAATCAAAGTTAGATTTTCCT
TTTTTCTTCAGATTTATCTTATAATGATATTTTAGGTTTATACATAAAATTTTCGTCACCTTTATAAACAGCGCA
GACGGCGCTATGGAAGAAAAAGAAAAAGATCCACTAAAAAGAAAGATTTAGATGGCTTCTTGCCAGTT**TG**AGCCT
AATCTGATTCTTACAGTTTTACCTTCTTGAACCAATGTAAAAGTTTTTTAATGTTAAATGATTAAATCTCAGT
GAGGCTATCTTCCTTTTCCCCAGTAACATTCCTGAATTTACTGTTATCTTATTGTAGTACTTGACATGACATGGAT
TCCTGATATCTGATGAGAGGTTCAATCTTGTGTATTCAAGTTAATGACACCAAAAAGGCTCAGCCCACCCCAACCCT
ATCTCATGTTCACTGTCTAATAACATGCCAGAGATTTTTTTTTTCAAAAAGTGCTTTATCCCTACAATGTACTGA
CAGTTCTTACAGTTGAGGATTGGTTCTTTTCAGCTAATTGCTTGGTGGAATAAAAAAGCAAGACTAATGTCAA
CTCTAATGGAAGGCTGGTTAAAAAGTGACTCAGGCAAGG

2265/2825
FIGURE 1992

MENQVLTPHVVWAQRHRELYLRVELSDVQNPAISITENVLHFKAQGHGAKGDNVYEFHLEFLDLVKPEPVYKLTQ
RQVNITVQKKVSQWVERLTKEKRPLFLAPDFDRWLDESDAEMELRAKEEERLNKLRLESEGSPETLTNLRKGYL
FMYNLVQFLGFSWIFVNLTVRFCILGKESFYDTFHTVADMMYFCQMLAVVETINAAIGVTTSPVLP SLIQLLGRN
FILFIIFGTMEEMQNKAVVFFV FYLWSAIEIFRYSFYMLTCIDMDWKVLTWLRYTLWIPLYPLGCLVEAVSVIQS
IPIFNETGRFSFTLPYPVKIKVRESFFLQIYLMIFLGLYINFRHLYKQRRRRYGKKRKRSTKKKDLDGFLPV

2266/2825
FIGURE 1993

CCAGGGCCTGACTAAACCTGGAGACTCGGGTGGCCGAGGGGCTTCATACCAGCTGAAGAGCGACAAGCCGCTGGC
AGCCGCGGATCTCACC GCCGCTCAGGGTTTTAGAACTTCAGCCATAAAAAATGGGCAGAAATTTTCCTTGATCATA
TCGGTGGTACCCGTCTGTTTTCTTGTGCAAACTGTGATACGATCCTGACCAACCGCTCAGAACTCATCTCCACTC
GTTTCACAGGCGCCACTGGCAGAGCATTTCTTTTTAACAAGGTAGTTAACCTGCAGTACAGCGAAGTTCAAGATC
GGGTCA TGCTCACTGGCCGCCACATGGTTCGAGATGTGAGCTGCAAAAACCTGCAATAGCAAACCTGGGATGGATCT
ATGAGTTTGCCACTGAAGACAGCCAGCGATATAAGGAAGGCCGCGTGATCCTGGAACGTGCTCTAGTTCGAGAGA
GTGAGGGCTTTGAGGAGCATGTACCATCTGATAACTCTTGAAGATACAGAGAGAAATCCATCTTTTCCCAGGTCT
CCTTCACTGAAAACAAAAATCTACTTACATACACTGTCACCTTAGCATCAGAGTCGGATTAATGAACTGCGGAAC
AAGAGGTTGTGAGAATCTAAGATGGAACCTTTCTTTCTTTCTTTCTTTTTTTTAAATTTTGATTTTCCATCCA
ACAGCAGTGTGTAGAGAGAATATTATGCAGATGCCGTTAATTTTTTACCCTATGTTTACATCTTGAGGCAGCAGA
GTCTGTCTGCAGCTATGTGGTGAGCTATGTAAGGAAAAAATCTGGGCTGTTAGAGTGAAAAAGTGTGTTTTATG
TCAATTGTGAAAGGAAAATGTTAGGAGTATGGTTTTTAACTTGGGCTTCATTTTAACTTTTTTTTTTAAACCC
AGTTATTTCACTTGATTTGCTAGCTTCAGAGAAGAGATCCGAATCTGTGCCAGCGCTAAAGGCTCAGTGTTAGC
ATGGCTTGTGCTGGCCGGTGTGCCATATTCTTGTTGGAGATGAACCGTAGCACCAGAGCCCATTTCTTCCTTGTC
GTCTTGGCCCAAAGATGTCACCATTCCTAGTTATTTGTCCACATAATTGGTGTTGATTGGAACTTTTTCTGA
GATGGGACAGAACTGCTGGGTTGTCTTTTTCCATGTAACCTAAGCATAGTAATATAAAATAAAGTAATAGTTGGAT
GCTTTTGGTCCTGTGTTGCTTTTTAAAAACACCTTATAAAAGAGGAGAGTATTTGATAAGCAATTTTCATAGTAGT
AAAGTTTTTTTTTCATCTCTTAACTAAATTGACCATGCATATAATATTCTTTGTTTAAATGAAAGCATACTGTTG
AAACCCGCAGTGTTGCATTTAGAAAACAGTTGAACAGAATGTCAATGTGCATTTCATGAAAAAACATTTAATCT
GCATCTGTTTTAGAAAAGGGGAAATGAAGCAACTTGTCTAAAAATACTGCTTTACAAAGCATTTTCAGCCTTTCC
CCCTCAGTTTTGCATTGATTTTTTGACAAGTCTGTAGAGCCTAATAGTTTCCATCAAAGGCCCTAGATCTCTTATT
TAGCATTTTTTTTCAGCTCTTCTCTCAGAAGTTTCAGCTGTTGAAACGAAAACCTGTACTTTGTACCCTCACATACAA
AGGGATCAAATTTGACCTGGTGTTATTTTAGCCCCAAATTTATGACATTACACAATATTAAAAATGTAAATGTTTC
TTTACCCAACTACTTCTAGATATTCTAGTATTTGCTTCTGGTGGAATTAAATGACGGTAAAATTTGGCTAATTAT
TTGAATGAATGAATGGATGGATGTTTTGCATGCTCAATTTCTAGGTCCTTTGTCTAGAAAGGAAATTTGCCTCAG
TTGAATTAGTGAAATATTTCTGTCGTTGATATTAAAAAGTGACTTCTGAGTACAGTTAAGTTCTCCTATTTGCCA
CTGGGCTGTTGGTTAGAAGCATAGGTAACCTGATTAAAGTAGGTATGATACTGCATTTGAAATAAGTGACACAAAC
TATCCTTTCTCCACCATGGACTCAATCTGAGAACAACAGCATTCAATTTCCATTCAATTTCCATACTGGCTTTTGAT
TATATGCAGATTCTAGTAGCATGCCTTACCTACAGCACTATGTGCATTGCTGTGACAATAAAGTATATTTGT
CTTGCAAA

2267/2825
FIGURE 1994

MGRIFLDHIGGTRLFSCANDTILTNRSELISTRFTGATGRAFLFNKVVNLQYSEVQDRVMLTGRHMVRDVSKN
CNSKLGWIYEFATEDSQRYKEGRVILERALVRESEGFEHVPSDNS

2268/2825
FIGURE 1995

GGCGGCGGTCCCGAGGGGCGGCGGCCGCGCTGCTCCCTGAGAACGGGTCCCGCAGCTGGGCAGGCGGGCGGCCTG
AGGGCGCGGAGCCATGAAGCTGTACAGCCTCAGCGTCTCTACAAAGGCGAGGCCAAGGTGGTGCTGCTCAAAGC
CGCATACGATGTGTCTTCCTTCAGCTTTTTCCAGAGATCCAGCGTTCAGGAATTCATGACCTTCACGAGTCAACT
GATTGTGGAGCGCTCATCGAAAGGCACTAGAGCTTCTGTCAAAGAACAAGACTATCTGTGCCACGTCTACGTCCG
GAATGATAGTCTTGCAGGTGTGGTCATTGCTGACAATGAATACCCATCCCGGGTGGCCTTTACCTTGCTGGAGAA
GGTACTAGATGAATTCTCCAAGCAAGTCGACAGGATAGACTGGCCAGTAGGATCCCCTGCTACAATCCATTACCC
AGCCCTGGATGGTCACCTCAGTAGATACCAGAACCCACGAGAAGCTGATCCCATGACTAAAGTGCAGGCCGAAGT
AGATGAGACCAAAATCATTCTGCACAACACCATGGAGTCTCTGTTAGAGCGAGGTGAGAAGCTAGATGACTTGGT
GTCCAAATCCGAGGTGCTGGGAACACAGTCTAAAGCCTTCTATAAACTGCCCGGAAACAAAACCTCATGCTGTGC
CATCATGTGATGCAGCCTGCCAGAGGCCCAATGCTGGAATGGCACCATCATTACATCAGAACTGCAGCCCCCTGG
AAAAGAAGAGACAGCCATAGACGAGGAGCCAGAGTGGGGGCAGACTGGCCATTTTTATTTTGAAGTTCCTGCGAG
AAATGGATGGTGGAAAGGGTGGCGAATGTTCAAATTCATATGTGTGGTAGTGATTCTTGAAAAGAATTTGAGGTCC
CCAAAGGTGTATTTTTGGGCAAATGAAACCATAAACTCCGACTGGCTTCTGTAGATGCCAAAGGGCTCTTTTTCA
GCTAACCCCTGGGAAGGCTCTGTGGGAGGGAGGTTCGAGCCAGCTGTTTCTCGATCTTTGGTATATCTTTGGATCT
TATTTGTACATTAATGATATTAACACTCCAGTGGGGGTGGGGAGTCCCTGATGCTAGGGCTGGGGTGGGTGGAG
TTTGAAGACTCTTGGGAAAGCCTCTCCTGGGGCCACTGTTGGGGGTGGGAGTGAGCCCACCACAGAGGCCACAGG
CAGGCCCCCACTTCAGGCCCAAGGCCTGGGGCGGGGGGAACAGTCACTGGGTCTCAGATTCTGAGACTGTTGTTT
AGCTTACCTTTCTGCTAGGATTGGCTTCCCGCAGAGGGCAGGGCCCATCCTAAGCAGCTTCCAAGTCCCACAAAG
GTGGCTTGTGGGAGGATTTGGAAGGAGCTGCATTGTGGGCGGGGAGTGTGTGGGTGGGTTCGTACCAGCAAGTA
GACTAGGAAGTGAAGCCAGGAAAGGGGGATGTTTTCTGGTGTGTTGGATGGTCAGCTGGGAGTGTCATCATCAG
GGGAAGATCAAACACAGGTGCACTCAGCTGCCCAGGGCCTCTGGGACACTTGCCCTGACTTGCAACTTGCCTTGA
ACATCACGATCAAAGCAGCAGGTGCTGTGGTCTCTCAAATTGATTTTTATTTGACTCTGTGGCTCTAAGACTGC
CTTGAACCGCTGAGGCCTATGCATCTGAACAAGTGGGTCTCTCCCTTGAGCACCAGGAGTGGGTGCCAGCCGGC
CCCGAGGATTCCCAGCACCCACCTATGGTCTTGCCAGCATAGGCTTGCTAGTTCCTTCTTGGTCAGAGGTAGCT
GCAGAGGGGGGAGGCCAAGGGTTTGGTCTAAGCTGTGCCCTGCCACCTGGCAGGAGGCCCACTCACTGCCCAAGT
CATGGCAACAGGCTGGAGCAGCCAGGAGATGGGCCTAAAATGTTCTGGATCCCTTGGGTCTAGTGTTATGTTT
CAGTCTGCCCACCTGTGCTCAGGATGCAGCCCTGGGATCCAGCACCCATGGAAGCTTCTGCTGGGATGGTGTAC
CTATGGGTTTTGAACCAGTGTGGTATGGTCCCTGGGAGCTCTGCTCTGAGCTTGCCACACTGCTGAGAGCACCA
CTGTCCTGACCAGAGTCTCAGTGGTCTTGACCCCAATGTGGGCAGGGGCTGGGCAGGAGGGTGGGTCTGCTGT
GGGTTCAGAGGACTCCACCTCCTGGCTGGTTTACCTGCTGCTGCCATTTTCTCTGGGTACTGCTGGCCAGAGGA
CTTTAGCCTACCCCTGAAGAGCCTGTCCATGTCATTTTCTTACTGCCATAGATACCCTAAGCCCAGGGCCCTTG
AGGCCCAGACTCAGCCTGCCACTGGTGCCGGAGACGGAGTGGAGTGGGCCTGGATCCGAGGGATGCTACCTCTC
CCTTTCCCACTTGAGGACCCTGGGGAGAGATGGGGGCGGGGAAAATGGAGGTATGAATTTGGGGTAAGAGGAAGT
GAGATCTCCGCTTGCAGGTGAGCCCTGCCTTGCAAGGCGGGCTGGCTTGAAGTCAAGCCCTGTGAGATAGAGGGC
CCAGCCCAGCCCCACCCACAGATCCCCTGCTCCTGTGTGTTCTGTTGTAAATCATTGGCGAGACTGTATTTTA
GTAAGTGTGCCTAACTTCCCTGTGTTCTATTTGAGAGGCGCCTGTCTGGATAAAGTTGTCTTGAAATTTCAAAA
AAAAAAAAAAAAAA

2269/2825
FIGURE 1996

MKLYSLSVLYKGAEKVLLKAAYDVSSFQSSVQEFMTFTSQLIVERSSSKGTRASVKEQDYLCHVYVRNDSL
AGVVIADNEYPSRVAFTLLEKVLDEFKQVDRIDWPVGSPATIHYPALDGHLSRYQNPREADPMTKVQAEIDETK
IILHNTMESLLERGEKLDDLVSKEVLGTQSKAFYKTARKQNSCCAIM

2270/2825
FIGURE 1997

GGCACGAGGGAGAGAACTAGTCTCGAGTTTTTTTTTTTTTTTTTTTTTGACAAGATGGCGGCAGGAGGCAGTGGCGT
TGGTGGGAAGCGCAGCTCGAAAAAGCGATGCCGATTCTGGTTTTCTGGGGCTGCGGCCCACTTCGGTGGACCCAGC
GCTGAGGCGGCGGGCGGCGAGGCCCAAGAAATAAGAAGCGGGGCTGGCGGCGGCTTGCTCAGGAGCCGCTGGGGCT
GGAGGTTGACCAGTTCTTGGGAAGACGTGCGGCTACAGGAGCGCACGAGCGGTGGCTTGTTGTCAGAGGCCCAAA
TGAAAAACTCTTCTTCTGTTGACACTGGCTCCAAGGAAAAAGGGCTGACAAAGAAGAGAACCAAAGTCCAGAAGAA
GTCAGTGTCTTCTCAAGAAACCCCTTCGGGTTGACCTCATCCTCGAGAACACATCCAAAGTCCCTGCCCCCAAAGA
CGTCTCGCCACCAGGTCCCCAACGCCAAGAAGCTCAGGCGGAAGGAGCAGCTATGGGAGAAGCTGGCCAAGCA
GGGCGAGCTGCCCCGGGAGGTGCGCAGGGCCCAGGCCCGGCTCCTCAACCCTTCTGCAACAAGGGCCAAGCCCGG
GCCCCAGGACACCGTAGAGCGGCCCTTCTACGACCTCTGGGCCTCAGACAACCCCTGGACAGGCCGTTGGTTGG
CCAGGATGAGTTTTTCTTGGAGCAGACCAAGAAGAAAGGAGTGAAGCGGCCAGCACGCCTGCACACCAAGCCGTC
CCAGGCGCCCGCCGTGGAGGTGGCGCCTGCCGGAGCTTCTACAATCCATCCTTTGAAGACCACCAGACCCTGCT
CTCAGCGGCCACGAGGTGGAGTTGCAGCGGCAGAAGGAGGCGGAGAAGCTGGAGCGGCAGCTGGCCCTGCCCGC
CACGGAGCAGGCCGCCACCCAGGAGTCCACATTCCAGGAGCTGTGCGAGGGGCTGCTGGAGGAGTCGGATGGTGA
GGGGGAGCCAGGCCAGGGCGAGGGGCCGAGGCTGGGGATGCCGAGGTCTGTCCACGCCCCGCCCGCCTGGCCAC
CACAGAGAAGAAGACGGAGCAGCAGCGGCGGCGGGAGAAGGCTGTGCACAGGCTGCGGGTACAGCAGGCCGCGTT
GCGGGCCGCCCGGCTCCGGCACCCAGGAGCTGTTCCGGCTGCGCGGGATCAAGGCCCAGGTGGCCCTGAGGCTGGC
GGAGCTGGCGCGGCGGCGGAGGCGGCGGCAGGCGCGGCGGGAGGCTGAGGCTGACAAGCCCCGAAGGCTGGGACG
GCTCAAGTACCAGGCACCTGACATCGACGTGCAGCTGAGCTCGGAGCTGACAGACTCGCTCAGGACCCTGAAGCC
CGAGGGCAACATCCTTCGAGACCGGTTCAAGAGCTTCCAGAGGAGGAATATGATCGAGCCTCGAGAGAGAGCCAA
GTTCAAACGCAAGTACAAGGTGAAGCTGGTGGAGAAGCGGGCGTTCCGTGAGATCCAGTTGTAGCTGCCATCAGA
TGCCGGAGACTCGCCCTTCAATAAAAAATCTCTTCTAGCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAA

2271/2825
FIGURE 1998

MAAGGSGVGGKRSSKSDADSGFLGLRPTSVDPALRRRRRGPRNKKRGWRRRLAQEPLGLEVDQFLEDVRLQERTSG
GLLSEAPNEKLFFVDTGSKEKGLTKKRTKVQKKSLLLKKPLRVDLILENTSKVPAPKDVLAHQVPNAKKLRRKEQ
LWEKLAKQGELPREVRRRAQARLLNPSATRAKPGPQDTVERPFDLWASDNPLDRPLVGQDEFFLEQTKKKGVKRP
ARLHTKPSQAPAVEVAPAGASYNPSFEDHQTLSSAAHEVELQRQKEAEKLERQLALPATEQAATQESTFQELCEG
LLEESDGE GEPGQGE GPEAGDAEVCPTPARLATTEKKTEQQRREKAVHRLRVQQAALRAARLRHQELFRLRGIK
AQVALRLAELARRRRRRQARREAEADKPRRLGRLKYQAPDIDVQLSSELTDSLRTLKPEGNILRDRFKSFQRRNM
IEPRERAKFKRKYKVKLVKRAFREIQL

2272/2825
FIGURE 1999

GGCACGAGGGTGCGGCTCGGGGTAATAGGGCTGCTGCTCGGCCGGCCGGCGGGCGGCGAGCAGCAGGGGCATGAGG
GCTAACCCGGGAAGCGGCAGCTGAGCGGGCCGGGAGGAGCGCCGGTCCCCGTGGATCCCGAGAGTGCAGAGCTCG
GGGCAGGGGCCGGGAGGCGTGGGGGAGCCGGGCCCTCCCCTCAGGAACGTGTCCAGGGGCCGACCCGGCCCGTAG
TGTGGAAGCAGCTTCAGGTAGGTGAGCTCGTGAAACAATATGAAGAGGAGAAAATAGCCTTTTAAGGAAATTGGC
CCACAGAAAGGATGGCCTTCTTGACAATCCAACCTATCATTCTAGCTCATATTGACAGTCAATGTGACCAGTG
ATGACACGGGAATGTGTGAGATGGTTCTCATTGATCATGATGTTGACCTAGAGAAGATTTCATCCTCCTTCAATGC
CTGGAGACAGTGGGTGAGAAATTCAGGGAAGCAATGGTGAGACTCAGGGCTATGTATATGCCAGTCAGTCGATA
TTACCTCAAGTTGGGACTTTGGTATTAGAAGACGCTCAAACACAGCTCAAAGATTAGAACGACTCCGAAAAGAGA
GACAAAACCAGATCAAATGCAAAAATATTCAGTGGAAGAAAGAAATTCTAAGCAATCAGCCAGGAGTTAAAGT
CACTGTTTGAAAAAAATCTCTCAAAGAGAAGCCTCCAATTTCTGGGAAGCAGTCGATATTATCTGTACGCCTAG
AACAGTGCCCTCTGCAGCTGAATAACCCCTTTTAACGAGTATTCCAAATTTGATGGCAAGGGTCATGTAGGTACAA
CAGCAACCAAGAAGATCGATGTCTACCTCCCTCTGCACTCGAGCCAGGACAGACTGCTGCCAATGACCGTGGTGA
CAATGGCCAGCGCCAGGGTGCAGGACCTGATCGGGCTCATCTGCTGGCAGTATACAAGCGAAGGACGGGAGCCGA
AGCTCAATGACAATGTCACTGCCTACTGCCTGCATATTGCTGAGGATGATGGGGAGGTGGACACCGATTTCCTCC
CGCTGGATTCCAATGAGCCATTCTATAAGTTTGGCTTCAGTACTTTGGCCCTGGTTGAAAAGTACTCATCTCCTG
GTCTGACATCCAAAGAGTCACTCTTTGTTTGAATAAATGCTGCTCATGGATTCTCCCTTATTCAGGTGGACAACA
CAAAGGTTACCATGAAGGAAATCTTACTGAAGGCAGTGAAGCGAAGAAAAGGATCCAGAAAGTTTCAGGTTCAA
GGGCAGACGGGGTTTTTGGAGGAGATTGCAAAATTGACATAGCCACAGTACAGGATATGCTTAGCAGCCACCATT
ACAAGTCATTCAAAGTCAGCATGATCCACAGACTGCGATTACACAACCGACGTACAGCTAGGTATCTCTGGAGACA
AAGTAGAGATAGACCCTGTTACGAATCAGAAAGCCAGCACTAAGTTTTGGATTAAAGCAGAAACCCATCTCAATCG
ATTCCGACCTGCTCTGTGCCTGTGACCTTGCTGAAGAGAAAAAGCCCCAGTCACGCAATATTTAAACTCACGTATC
TAAGCAATCACGACTATAAACACCTCTACTTTGAATCGGACGCTGCTACCGTCAATGAAATTGTGCTCAAGGTTA
ACTACATCCTGGAATCGCGAGCTAGCACTGCCCCGGCTGACTACTTTGCTCAAAAACAAAGAAAACCTGAACAGAC
GTACGAGCTTCAGCTTCAGAAAGGAGAAGAAATCCGGGCAGCAGTGACACTGGCCTCCAGCCTCAATCTGTTCCG
TAGCTCAGAGCCTGCCTGCCAGGGCCAAGTGCCCTAGAGCCACCCGGTGTCTGAAGTCCTCGGGGGGAGGCCA
GCCCCTGGCTCACTGGCACAGGGCAGGTGGGCTCTCGGGGAAGGTGTCGGGGGCCCCCTAGGAGGGAGCGCTGGG
GACATTGCCATGGGACGGAAGTCTGCTTGGCAGTGGCTTTGATAAGCGATGCTTGGGGGTGAGACCACCCCTAG
AGGAGCCACGTGCCGCCAGCCACCTTCAATGCCTGCCACCCCTGCCCGAGGATGTACAGAGCCGTGCCACACAT
TTCCTTGCAACTTGATCAAATTTCTTAAAGCAAACAACAAAAATGTACATTTCTGTTTTTCTTTTAAATAAACAG
GTGTACTCTTTAAAAA

2273/2825
FIGURE 2000

MAFLDNPTIILAHIRQSHVTSDDTGMCEMVLIDHDVDLEKIHPPSMPGDSGSEIQGSNGETQGYVYAQSVDITSS
WDFGIRRRSNTAQRLELRKERQNQIKCKNIQWKERNKQSAQELKSLFEKKSLKEKPPISGKQSILSVRLEQCP
LQLNPNPFNEYSKFDGKGHVGTATKKIDVYLPLHSSQDRLLPMTVVVTMASARVQDLIGLICWQYTSEGREPKLND
NVSAYCLHIAEDDGEVDTDFPPLDSNEPIHKFGFSTLALVEKYSSPGLTSKESLFVRINAAGHFSLIQVDNTKVT
MKEILLKAVKRRKGSQKVSGSRADGVFEEDSQIDIA TVQDMLSSH HYKSFKVSMIHR LRFTTDVQLGISGDKVEI
DPVTNQKASTKFWIKQKPI SIDSDLLCACDLAEEKSPSHAIFKLT YLSNHDYKHLYFESDAATVNEIVLKVNYIL
ESRASTARADYFAQKQRKLNRRTSFSFQKEKKSQQ

2274/2825
FIGURE 2001

ACCCGTGGGCCTGTGGACTGCAGCCTCGGCGATCAGAGAGTGCTTGTGATTTCACGTATTTTTGCTGAACTCGTA
AAAGAGACACTTGGATGGTGGATTAAACCAGAACACTAACATTCTGTGAAAAGTTTCAAATTGGAGAATATTGAAT
TTTACCCTAGTCCAGCAGCTCCGCTGTCACTTAAATACAGATGAATGAAGACCCCATTCGGAAAGACACCTGGC
CAGCGGTCCAGAGCTGATGCAGGCCATGCTGGAAGTATCTGCCAACATGATGAAGAAGAGGACATCCCACAAAA
ACATCGGAGCAGTGTGGGTCCGAGCAAACCTGTTTCCCAGCCCCGGCGGAACATCGTAGGCTGCAGGATTTCAGCA
TGGGTGGAAAGAGGGGAATGGCCCTGTTACCCAGTGGAAAGGGACCGTTCTGGACCAGGTGCCTGTAAATCCTTC
TTTGTATCTTATAAAATACGATGGATTTGACTGTGTTTATGGACTAGAACTTAATAAAGATGAAAGAGTTTCTGC
GCTTGAAGTCCTCCCTGATAGAGTTGCGACATCTCGAATCAGCGATGCACACTTGGCAGACACAATGATTGGCAA
AGCAGTGGAAACATATGTTTGAGACAGAGGATGGTTCTAAAGATGAGTGGAGGGGAATGGTCTTAGCACGTGCACC
TGTCATGAACACATGGTTTTACATTACCTATGAGAAAGACCCTGTCTTGTACATGTACCAACTCTTAGATGATTA
CAAAGAAGGCGACCTTCGCATTATGCCTGATTCCAATGATTACCTCCAGCAGAAAGGGAACCAGGAGAAGTTGT
GGACAGCCTGGTAGGCAAACAAGTGAATATGCCAAAGAAGATGGCTCGAAAAGGACTGGCATGGTCATTTCATCA
AGTAGAAGCCAAGCCCTCCGTCTATTTTCATCAAGTTTGTATGATGATTCCATATTTATGTCTACGATTTGGTGAA
AACATCCTAGATGTCATCACAAACTCTGCCAAATTTGTGGAACATGAAATGTATTATTTGTAGACATAAAGACT
TGATTGCTTTCCAGTTTAATGAAAGCTTAAATGTCCCTGCGAACCACAACTCTCTGCCAGCAGAACTGGTTTTGT
TCTGAATAGTACAGATTGATGTGAACACAAAGCATTTTGTGTAAGGAGAACCCCTTTCTTTTAAAGAAGTCTGT
CTATTTTCGAGGGGAGTTACAGGCAAGTTTGGTAAAAGTTAAGCTAGTATCATAGTCATTTAAATTTGTAATAGAT
CTTAACCATTTTCCCCCTCACCTAACTCTCTTATTCTGCCGCCACAATGCAAGCATAGTTTGTATGTTTTCGTTA
TTGCCTTTTTTGAGATGTATGTATCTGTATCTACCTATATCTATATGTGTGTATACATATATAATATATACACAC
AGATACAAGTGTACACACACACACCACACACCACACACACCCCACTGGCAGCTTTGTGGATTAGGATGGGGGTGC
GGGGTT

2275/2825
FIGURE 2002

MQAMLEVSANMMKKRTSHKKHRSSVGPSKPVSQPRRNIVGCRIQHWKEGNGPVTQWKGTVLDQVPVNP SLYLIK
YDGFDCVYGLELNKDERVSALEVLPDRVATSRISDAHLADTMIGKAVEHMFETEDGSKDEWRGMVLARAPVMNTW
FYITYEKDPVLYMYQLDDYKEGDLRIMPDSNDSPPAEREPGEVVDSL VGKQVEYAKEDGSKRTGMVIHQVEAKP
SVYFIKFDDDFHIYVYDLVKTS

2276/2825
FIGURE 2003

GAAGATGCGGCGGAGCGACAGGAGGCGCTGAGGGAGTTCGTGGCGGTGACGGGCGCCGAGGAGGACCGGGCCCG
CTTCTTTCTCGAGTCGGCCGGCTGGGACTTGCAGATCGCGCTAGCGAGCTTTTATGAGGACGGAGGGGATGAAGA
CATTGTGACCATTTTCGAGGCAACCCCCAGTTCAGTGTCAGAGGCACAGCCCCAGTGATAATAGAGTGACATC
CTTCAGAGACCTCATTATGACCAAGATGAAGATGAGGAGGAAGAGGAAGGCCAGAGGTTTTATGCTGGGGGCTC
AGAGAGAAAGTGACAGCAGATTGTTGGCCCTCCAGGAAGAAAAGTCCCAACGAGCTGGTGGATGATCTCTTTAA
AGGTGCCAAAGAGCATGGAGCTGTAGCTGTGGAGCGAGTGACCAAGAGCCCTGGAGAGACCAGTAAACCGAGAGT
TCATGTAGTATTGAACTCTGGAAGAGTGGAATTCAGCCTGGATAATGGAGAACTCAGAAGCTACCAAGACCCATC
CAATGCCCAGTTTCTGGAGTCTATCCGAGAGGGGAGGTGCCAGCAGAGCTTCGGAGGCTAGCTCACGGTGGACA
GGTGAACCTTGGATATGGAGGACCATCGGGACGAGGACTTTGTGAAGCCCAAAGGAGCCTTCAAAGCCTTCACCTGG
CGAGGGTCAGAACTGGGCAGCACTGCCCCCAGGTGTTGAGTACCAGCTCTCCAGCCCAACAGGCAGAAAATGA
AGCCAAAGCCAGCTCTTCCATCTTAATCGACGAATCAGAGCCTACCACAAACATCCAAATTCGGCTTCGAGACGG
CGGGAGGCTGGTGCAGAAATTTAACCACAGCCACAGGATCAGCGACATCCGACTCTTCATCGTGGATGCCCGGCC
AGCCATGGCTGCCACCAGCTTTATCCTCATGACTACTTTCCCGAACAAAGAGCTGGCTGATGAGAGCCAGACCCT
GAAGGAAGCCAACCTGCTCAATGCTGTATCGTGACGCGTTAACAATAACCGCCAGCCAGCTGCCTGGCCTCCC
TCCTGTGTTTCCCAGTGGCCAGTGGCCATGCCCCATGGGGATCGCCCCCTCTGCCCCCTTGTGCACACCCAGCAGT
CCAGTGCAACGTCTCCTCCATAGCTCTGGGTTCTTAGATCTTGTTGGACGTTTGTCTTCTCCTTAGTGCATTT
CCTGGGTTTTTGTGATGATCAATGGACTTTAATGAAAAAAAATAAAAAACAACCAAAAAAATTGAAGGAATATCA
CCAGCATGTTGTACGGAACTCTCCCACTGAAGCAGGCTTTAATTGCTTTAAAATTATATTTATCTTGGGGCCTG
TGGGAGGAACTTCCTTCCATCTTCTCTGCATAAAAACTTGTGGCACACAATGCTTATTCAGTAGTGTGTCCAC
CCGCCAGCCCCACAGATGACTGGAGGAAGGAGGGGAAATGTGTAGAAAGAGGCTTCGCCACCACTTGTTCACG
AGAATATATCACTTGCCAGATAAACTGGGCGGCAGCCAGAGTTCCCTGAAGTGGGAAGTCAGAGCTACATGCA
CACAGTGCTTTCAGAAGGTGAAAATAAATATTTCCCTGTGCTCCTTTTACTCAACCCCTGGGGTATCTAATCTTG
CCAGGTCTTGGCCAGTTGAGATTCTGTTCCACCTGCCTGCCTGGCCCTTTCCTCCATTACCATCCAGACTGCTCG
CCTCCTGGGGATTCTCAGGGGCTCCATTATGGCTTGATTTACTCCACGTGCAGAAGTCTTGAGTGGACCTAGGAG
GTAGGTGGGATATTTTTTTTCACTAGGATACAGCTCATGCCAACCCTCCTAAGTGAGTTCAGAATCAGGGTATC
TTGCCCTAAAAAGATAAACAGTCAAAATGCCACCGAGCTGTTCACTAGTGATGTGTGGCAAATCAAATCAACTGTT
GAAGAAGGGGTGAGTTTTCTGTGCTACAAGCACCTGTCACTGTTGGTACTTGACAGGAGGCTTCTGCTGGGTATGT
TTTGGAAGTGAGTGTCACACTTGGCTTTGCTTAGCAGGTTCTGCTTCACACTTGTCTTTGACCTGCTGACTTG
TGACTTGCAGAAACATAGGCAGTAGTCCTAGCCTGGTAAAGACCCTCCACCACCCCTATAAGTTTGATTGCTATG
CAGGTTTGGGAGAGGAGGCCTATTGGGCTCTTGGATGGAACCCTTTCCCGTATTAAACAAACCAGAGACAGAATC
AGTGCTGACTCAGGATCTCCTGGTTTGGGAATCGTAATGTGCCTCAATCCTCTTTCCAAGCAGGCCTCACCAGTCT
CTTTCTCTTTCTGCTTCACCCCTGCAATGAGCCAAGAACCAACACTACATCCACCTAGAAGTGCAGAAGGGCTT
GTGGTTTCAACCAAGACCCATCCTGAGCAAGGGACTTGGCTTGGTGCTTTTGATCCCAAAGTTCCACACCGGCA
GTGGCCTGCTGGGGCAATGGCATCTGTACGGTGTCTTCTCCAGCAGGTGGAGATTATGGAACCTACATATGGGT
CTGGAAAACTGTACACTGTTGTACCTTGACATTAAAAACCAGAATGAGG

2277/2825
FIGURE 2004

MAAERQEALREFVAVTGAEEDRARFFLESAGWDLQIALASFYEDGGDEDIVTISQATPSSVSRGTAPSDNRVTSF
RDLIHDQDEDEEEEEGQRFYAGGSERSGQQIVGPPRKKSPNELVDDLFGAKEHGAVAVERTKSPGETSKPRVH
VVLKLWKSGFSLDNGELRSYQDP SNAQFLESIRRGEVPAELRRLAHGGQVNLDMEDHRDEDFVKPKGAFKAFTGE
GQKLGSTAPQVLSTSSPAQQAENEAKASSILIDSEPTTNIQIRLADGGRLVQKFNHSHRISDIRLFIVDARPA
MAATSFILMTTFPNKELADESQTLEANLLNAVIVQRLT

2278/2825
FIGURE 2005

GGCACGAGTGGGAGTACAGGACTCGCCTCCTCAGGGTTCCTGTGCTGCCACTTTTCAGCC**ATG**GCCACAAGTGA
ACAGAGTATCTGCCAAGCCCGGGCTTCCGTGATGGTCTACGATGACACCAGTAAGAAATGGGTACCAATCAAACC
TGGCCAGCAGGGATTACGCCGGATCAACATCTACCACAACACTGCCAGCAACACCTTCAGAGTCGTTGGAGTCAA
GTTGCAGGATCAGCAGGTTGTGATCAATTATTCAATCGTGAAAGGGCTGAAGTACAATCAGGCCACGCCAACCTT
CCACCAGTGGCGAGATGCCC GCCAGGTCTACGGCTTAACTTTGCAAGTAAAGAAGAGGGCAACCACGTTCTCCAA
TGCAATGCTGTTTTGCCCTGAACATCATGAATTCCCAAGAAGGAGGCCCCCTCCAGCCAGCGTCAGGTGCAGAATGG
CCCCCTCTCCTGATGAGATGGACATCCAGAGAAGACAAGTGAATGGAGCAGCACCAGCAGCAGCGTCAGGAATCTCT
AGAAAGAAGAACCTCGGCCACAGGGCCCATCCTCCCACCAGGACATCCTTCATCTGCAGCCAGCGCCCCCGTCTC
ATGTAGTGGGCCTCCACCGCCCCCCCCACCCCACTCCACCCACTGGGGCTACCCACCTCCCCCACC
CCCACTGCCAGCCGGAGGAGCCCAGGGGTCCAGCCACGACGAGAGCTCCATGTCAGGACTGGCCGCTGCCATAGC
TGGGGCCAAGCTGAGAAGAGTCCAACGGCCAGAAGACGCATCTGGAGGCTCCAGTCCCAGTGGGACCTCAAAGTC
CGATGCCAACC GGGAAGCAGCGGGGTGGCGGAGGAGGCCTCATGGAGGAAATGAACAACTGCTGGCCAAGAG
GAGAAAAGCAGCCTCCCAGTCAGACAAGCCAGCCGAGAAGAAGGAAGATGAAAGCCAAATGGAAGATCCTAGTAC
CTCCCCCTCTCCGGGGACCCGAGCAGCCAGCCAGCCACCTAACTCCTCAGAGGCTGGCCGGAAGCCCTGGGAGCG
GAGCAACTCGGTGGAGAAGCCTGTGTCTCGATTCTGTCCAGAACCCCGTCTGTGGCAAAGAGCCCCGAAGCTAA
GAGCCCCCTTCAGTCGCAGCCTCACTCTAGGATGAAGCCTGCTGGGAGCGTGAATGACATGGCCCTGGATGCCTT
CGACTTGGACCGGATGAAGCAGGAGATCCTAGAGGAGGTGGTGAGAGAGCTCCACAAGGTGAAGGAGGAGATCAT
CGACGCCATCAGGCAGGAGCTGAGTGGGATCAGCACCACG**TA**AGGGGCCGGCCTCGCTGCGCTGATTTCGTCGAGC
CCATCCGGCGACAGAGGACAGCCAGAAGCCCAGCCAGCCCCAGACTCCAGTGCACCAGAGCACGCACAGGAGCCT
GGGCGCGCTGCTGTGAAACGTCTGACCTGTGATCACACATGACAGTGAGGAAACCAAGTGCAACTCCTGGGTTT
TTTTAGATTCTGCCTGACACGGAACACCAGGTCTGCTCGTCTTTTTTGTGTTTTATATTTGCTTATTTAAGGTAC
ATTTCTTTGGGTTTCTAGAGACGCCCTAAGTCACCTGCTTCATTAGACGGTTTTCCAGGTTTTCTCCCAGGTGAC
GCTGTTAGCGCCTCAGCTGGCGGTGACAGCCGGCCCCAGCGTGGCGCCACCACACACCGCAGAGCTGTCCAGGCAC
AGCTCCGTCCCCAGCGCTCATGGTGTTGAAACTGTCTGTCTATGCACCACGGTGTCTGTGTCCACACAGTAATAAA
CGGTTTACTGTCCGCAAAAAAAAAAAAAAAAAAAAA

2279/2825
FIGURE 2006

MATSEQSIQARASVMVYDDTSKKWVPIKPGQQGFSRINIYHNTASNTFRVVGVKLQDQQVVINY SIVKGLKYNQ
ATPTFHQWRDARQVYGLNFASKEEATTF SNAMLFALNIMNSQEGGPSSQRQVQNGPSPDEMDIQRQVMEQHQQQ
RQESLERRTSATGPILPPGHPSSAASAPVSCSGPPPPPPPPVPPPTGATPPPPPLPAGGAQGSSHDESSMSGL
AAAIAGAKLRRVQRPEDASGGSSPSGTSKSDANRASSGGGGGGLMEEMNKLLAKRRKAASQSDKPAEKKEDSQM
EDPSTSPSPGTRAASQPPNSSEAGRKPWERSNSVEKPVSSILSRTPSVAKSPEAKSPLQSQPHSRMKPAGSVNDM
ALDAFDLDRMKQEILEEVVRELHKVKEEIIDAIRQEELSGISTT

2280/2825
FIGURE 2007

GGGGGGGAGGACTGGGTGCGCCTGCAGGGATCGGAAGCCGGTTGGGGTGTGAGAGGTTTTCTCGCTCTAGGGAGA
TTCTTCAAGCAATCACT**ATG**TCAACAGACACAGGTGTTCCCTTCCTTCATATGAGGAAGATCAGGGATCAAAAC
TCATTGAAAAGCTAAAGAGGCACCATTTCGTACCCGTTGGAATAGCGGGTTTTGCAGCAATTGTTGCATATGGAT
TATATAAACTGAAGAGCAGGGGAAATACTAAAATGTCCATTTCATCTGATCCACATGCGTGTGGCAGCCCAAGGCT
TTGTTGTAGGAGCAATGACTGTTGGTATGGGCTATTCCATGTATCGGAATTCTGGGCAAAACCTGAGCCT**TAGA**
AGAAGAGATGCTGTCTTGGTCTTGTGGAGGAGCTTGCTTTAGTTAGATGTCTTATTATTAAAGTTACCTATTAT
TGTGGAAATAAACTAATTTGTATGGGTTTAGATGGTAACATGGCATTTTGAATATTGGCTTCCTTTCTTGCAGG
CTTGATTTGCTTGGTGACCGAATTACTAGTGACTAGTTTACTAACTAGGTCATTCAAGGAAGTCAAGTTAACTTA
AACATGTCACCTAAATGCACTTGATGGTGTGAAATGTCCACCTTCTTAAATTTTTAAGATGAACTTAGTTCTAA
AGAAGATAACAGGCCAATCCTGAAGGTACTCCCTGTTTGTGCTGCAGAATGTCAGATATTTTGGATGTTGCATAAGA
GTCTATTTGCCCCAGTTAATTCAACTTTTCGTCTGCCTGTTTTGTGGACTGGCTGGCTCTGTTAGAACTCTGTCC
AAAAAGTGCAATGGAATATACTTGTAAAGCTTCCCACAATTGACAATATATATGCATGTGTTAAACCAAATCCA
GAAAGCTTAAACAATAGAGCTGCATAATAGTATTTATTAAAGAATCACCAACTGTAAACATGAGAATAACTTAAG
GTTCTAGTTTAGTTTTTTTGTAAATTGCAAAATTATTTTTGTGCTGCTGATATATTAGAATAATTTTAAATGTCATC
TTGAAATAGAAATATGTATTTTAAGCACTCACGCAAAGGTAAATGAACACGTTTTTAAATGTGTGTGTTGCTAATT
TTTTCCATAAGAATTGTAAACATTGAACTGAACAAATTACCTATAATGGATTTGGTTAATGACTTATGAGCAAGC
TGGTTTGGCCAGACAGTATACCCAACTTTTATATAATATACAGAAGGCTATCACACTTGTGAAATTCTCTTGTG
TAATCTGAATTTGCATTCCATGGTGTAAACATGGTATATGTATTGTTATTAAAGTAAGTGACCCATGAAAAAAAA
AAAAAAAAAAAA

2281/2825
FIGURE 2008

MSTDIGVSLPSYEEDQGSKLIRKAKEAPFVPVGIAGFAAIVAYGLYKLKSRGNTKMSIHLIHMRVAAQGFFVVGAM
TVGMGYSMYREFWAKPEP

2282/2825
FIGURE 2009

ATATGATCCGCTCGGCTTCCTGGGTCTGGCTGCTGCCGCCCGCCGGTGTCCGCCCGTGTGCGCCGGGGCACCAA
GGAGCCGTTGGAGGGTCCGGGCGGAGGCCCGCTCGTGTGGAAGTCGTGACGCCGCCGCTCGTCCGTCTCCCGT
CCGTTCTCGCTCCCGGCCGCCATC**ATGCT**GGCGCTCATCTCCCGCCTGCTGGACTGGTTCCGTTCTGCTCTTCTGG
AAGGAAGAGATGGAGCTGACGCTCGTGGGGCTGCAGTACTCGGGCAAGACCACCTTCGTCAATGTCATCGCGTCA
GGTCAATTCACTGAAGATATGATACCCACAGTGGGCTTCAACATGAGGAAGGTAAGTAAAGGTAACGTCACAATA
AAGATCTGGGACATAGGAGGACAACCCCGATTTTCGAAGCATGTGGGAGCGGTATTGCAGAGGAGTCAATGCTATT
GTTTACATGATAGATGCTGCAGATCGTGAAAAGATAGAAGCTTCCCGAAATGAGCTACATAATCTTCTAGATAAA
CCACAGTTACAAGGAATTCAGTGCTAGTGCTTGGAAACAAGAGAGATCTTCCTAATGCCTTGGATGAGAAACAG
CTAATTGAAAAAATGAATCTGTCTGCTATTTCAGGATAGAGAAATTTGCTGCTATTCAATTTCTTGCAAAGAAAAG
GATAATATAGATATCACACTTCAGTGGCTTATTCAGCATTCAAAATCTAGAAGAAGCT**TGA**AGCATCTCTTGAGT
CTTCCAGTCTTCTTGGCTATAATCCTAGAATTATTGTCCGTTCTCTGAAGTAATTCCCAGAATACGGTCTCTTC
CTAAACCCAGAAATTGCCTTTTTCAGAGTCTATTTCTCATGTGCACTGCTGAAGATGAATATCCCTAATCCTTC
ATAAAGAATCAGCTAGAGTTGTCATGATAAAGTCAGCACACACAAAAAGGCTTCTTACACATAACAAAAAAATG
TCTTAAACCATGTGTAGAGCTTTAAAAACAGAAAAAAACCCCATATACTTATGACCATCTTAAATCAAGAAAAT
TGCATATTTCCATTCTGGTCTTTCTGGGCCAGATTTTATATTGGTTTTTCAGTAAATGTCTATCTATAATATTTT
ATTATAGAGTCCAGTAGCTTAATACTGACACTGACTTGATACAGCACGAAGTTTCTAGTGCCACACACAGTATTT
AGAAAACCTTTAGGCGTGAATGACTCATGTGGGATATATGTAAACATAATGTTTATTTTATCTCACAAATGCATG
TGAAATGTATAATTACATCTTAGGAATCCAAATGGTCTGCAGAGAGTGAGCGGAGGCACCAGATCAATGTTGGT
TCTTTGCACTGGTGAGATTCTGCCTGATGAATATTAAGATATCCTGCTTTCTGAGAACTCTATCACCAGATGGC
AGTTGGGATATGGGAGGAATAAAGCATCCTGTTTTGTATCTGTCCAGATCATTATTTCTGTCTCTTGTTTTTTC
TTCTGGTTTCAGGATACTTTTTTAAGGGGTTGAGAATTGAAGATTTTCCAAAAGCGTTCATGAATTTAGAGCATT
CCACCCAATATAATAAAACCTGTTAAGAATGTCAGTCTTTGTTCAAACATCTGTTTGTCTATCTCCAGTCATTA
AATCAGTGCTGCTGCATGACACTCTTAACCTGACTTTTTATATCCAGTCATAAAGTTGACTTTTCAGCACAAAA
GATACTTATAAACAAATAAAAAATTTTTATTTTTCTCTCTTACTGATGTAAGCTTTGGCACTCTTTTGACTGGTG
CCATTAGACATCTTGATTATTGTGACAACCTCTAGACCTGCCTGCTTTATCTAATGTAATCATGCTCAATGTCTAC
AGGTTGTTTAATAATCAGTCACACAGAGAACTGAGGAACTGATGCTGTTTGTGTTGCTTCTATGATACAGAGATGT
CTAAAAACTTCAAATGGACATGTTTTGTAGTTTAGCGACTTCCGTATACATAAAGGGACATATTAATACTGGTTC
ATTTGTAAATTATTATTATCATATAGACCACTGTAGTAGATAAAACTCTATGGTACACCTGCTTATGTGTTGCCTCA
CACTGTGTGTGATTTTGTTCCTTTGTTAAGCAGCACTTATGTAGACTGCATTTCCAAATGTGTTGAGCACTCGG
AGTGTAGTCAACAGTAAGTTCTTTTAATGAATATCAGTTTTAATTTATAGACTGCCATGGCCTTAAAAATATTCT
GTACAATATACTGCCTGTGTTGCACAGACACTACTTGCTTTTCTCCATTATTTTTATGAGTAGAATCTGGG
CTTTTAAATTTCTCTTCTTATTCTTTGAAGCATGTTGCATACTACCCTGGTGGGATGGATGGTTCTGTAAATGAA
GGGATATTTAACTTGCTACTGTTGTTCAACACCATTAAATGGTCAGTGTGAACCATTACAAAGAATGTGGCAACT
TGCTTGTGCCTAAAAGGAGGAATTGGAAGTAGAATGTGTGACTCTGTGGGGACTGCATAGGTTTGTTAATTGACC
TATAGCTAAACCTTAATGTGTTTGTGTGTCTATACATTGCTTTCCGCATTTCAAGACATCCAGACGCTATTACCA
ACATTTTCCTGTGCATTAACCTCTGCATGTGAAAACCTTTAACAGTTACTGAACTATGTAAATATGTGAATTTTT
TTATTTAGGTGGATGCATTTTTTGTCTGTTTACTGCTCTTCTCAGCTTTATTCAATAAACTTGCATTTTAAGGGT
TGTATTGGCAATTTTAACTTAAAATGTGCATCATGATGGAAGGTGCAGACTTTTTTGGAAAGTTTCCGAGAGGAGG
GTCTATAGACCATTTGTGAGAAATCAGATCAGCCCTCAAAGAATGGGGTCTGTGGGCTAGTTAAATAGAAATAA
ACTTTTAAAAATATCCACAG

2283/2825
FIGURE 2010

MLALISRLLDWFRSLFWKEEMELTLVGLQYSGKTTFVNVIASGQFSEDMIPTVGFNMRKVTKGNVTIKIWDIGGQ
PRFRSMWERYCRGVNAIVYMIDAADREKIEASRNELHNLLDKPQLQGIPVLVLGNKRDLPNALDEKQLIEKMNLS
AIQDREICCYSSISCKEKNIDITLQWLIQHKSRRS

2284/2825
FIGURE 2011A

CCCCGACTAGCCCCGACAGTCCCCGACTAGCCCCGACAGCCCCAGCAGGATCTGCATCGTCATCGAGCCGGCCCCAGC
TTCTGAAGGGAGATGTCATGGTGAAATGCTACCACAAGAAATACCGCTCGGCCACCCGTGACGTCATTTTCCGCC
TGCAGTTTCACACTGGGGCTGTGCAGGGCTACGGGCTGGTGTGTTGGGAAGGAGGATCTGGACAATGCCAGCAAAG
ATGACCGTTTTCTGACTATGGGAAGGTTGAATTAGTCTTCTCTGCCACGCCTGAGAAGATTCAAGGGTCCGAAC
ACTTGTACAACGACCACGGTGTGATTGTGGACTACAACACAACAGACCCACTGATACGCTGGGACTCGTACGAGA
ACCTCAGTGCAGATGGAGAAGTGCTACACACGCAGGGCCCTGTGATGGCAGCCTTTACGCGAAGGTGAGGAAGA
AAAGCTCCTCGGATCCTGGCATCCCAGGTGGCCCCCAGGCAATCCCGGCCACCAACAGCCCAGACCACAGTGACC
ACACCTTGCTGTGTCAGCAGTGAATCGGGCCACTCTACAGCCTCTGCCAGGACGGATAAGACGGAAAGAGCGCCTGG
CCCCAGGAACCAGGAGGGGCTGAGTGCCAGGAGAAAGGCAGAGTTGGACCAGCTGCTCAGTGGCTTTGGCCTGG
AAGATCCTGGAAGCTCCCTCAAGGAAATGACTGATGCTCGAAGCAAGTACAGTGGGACCCGCCACGTGGTGCCAG
CCCAGGTTACGTGAATGGAGACGCTGCTCTGAAGGATCGGGAGACAGACATTCTGGATGACGAGATGCCCCACC
ACGACCTGCACAGTGTGGACAGCCTTGGGACCCCTGTCTCCTCGGAAGGGCCTCAGTCGGCCACCTGGGTCCCT
TCACCTGCCACAAGAGCAGCCAGAACTCACTCCTATCTGACGGTTTTTGGCAGCAACGTTGGTGAAGATCCGCAGG
GCACCTCGTTCCGGACCTGGGCCTTGGCATGGACGGCCCCCTATGAGCGGGAGCGGACTTTTGGGAGTCGAGAGC
CCAAGCAGCCCCAGCCCCCTGCTGAGAAAGCCCTCAGTGTCCGCCCAGATGCAGGCCTATGGGCAGAGCAGCTACT
CCACACAGACCTGGGTGCGCCAGCAGCAGATGGTTGTAGCTCACCAGTATAGCTTCGCCCCAGATGGGGAGGCCC
GGCTGGTGAGCCGCTGCCCTGCAGACAATCCTGGCCTCGTCCAGGCCCAGCCAGAGTGCCACTCACCCCCACCC
GAGGGACCAGCAGTAGGGTGGCTGTCCAGAGGGGTGTAGGCAGTGGGCCACATCCCCCTGACACACAGCAGCCCT
CTCCCAGCAAAGCGTTCAAACCCAGGTTTCCAGGAGACCAGGTTGTGAATGGAGCCGGCCAGAGCTGAGCACAG
GCCCCCTCCCCAGGCTCGCCACCCTGGACATCGACCAGTCCATCGAGCAGCTCAACAGGCTGATCCTGGAGCTGG
ATCCACCTTCGAGCCCATCCCTACCCACATGAACGCCCTCGGTAGCCAGGCCAATGGCTCTGTGTCTCCAGACA
GCGTGGGAGGTGGGCTCCGGGCAAGCAGCAGGCTGCCTGACACAGGAGAGGGCCCCAGCAGGGCCACCGGGCGGC
AAGGCTCCTCTGCTGAACAGCCCCCTGGGCGGGAGACTCAGGAAGCTGAGCCTGGGGCAGTACGACAACGATGCTG
GGGGGCAGCTGCCCTTCTCCAAATGTGCATGGGGAAAGGCTGGTGTGGACTATGCCCAAACCTGCCGCCATTCC
CCTCACCAGCGGACGTCAAAGAGACGATGACCCCTGGCTATCCCCAGGACCTCGATATTATCGATGGCAGAAATT
TAAGTAGCAAGGAGTCCATGTGTTCAACTCCAGCATTTCTGTGTCTCCAGAGACACCGTATGTGAAAACAGCGC
TGCGCCATCCTCCGTTACAGCCACCTGAGCCCCCGCTGAGCAGCCACGAGTCAGCACAAAGGAGGACGTGAAC
CACGAAGCTGCCCTGAGACGCTCACTCACGCTGTGGGGATGTGAGAGAGCCCCATCGGACCCAAATCCACGATGC
TCCGGGCTGATGCGTCTCGACGCCCTCCTTTACAGAGGCTTTTGCTTCTTCTGACCATTTCCAGCAACGGCC
CTGGGCAGAGGAGAGAGAGCTCCTCTTCTGAGAACGCCAGTGGGTGGAGAGCAGCCCCAAGCCCATGGTTTCCC
TGCTGGGGAGCGGCCGGCCACCGGAAGTCCCTCAGCGCTGAGTTCTCCGGTACCAGGAAGGACTCCCCAGTGC
TGTCTGCTTCCCGCCGTCAGAGCTCAGGCTCCTTTCCACAGCCATGAGCTGTCCCTAGCAGAGCCACCGGACT
CCCTGGCGCCTCCCAGCAGCCAGGCCTTCTGGGCTTCGGCACCGCCCCAGTGGGAAGTGGCCTTCCGCCCGAGG
AGGACCTGGGGGCTTGTGGCCAATTCTCATGGAGCGTACCGACCCCCAGCATCCCGCTGACAGCGACAGGGG
CTGCCGACAATGGCTTCCCTGTCCACAACCTTTCTACGGTGGCGCCTGGACACAGCAGCCACCACAGTCCAGGCC
TGCAGGGCCAGGGTGTGACCCTGCCCGGGCAGCCACCCCTCCCTGAGAAGAAGCGGGCCTCGGAGGGGGATCGTT
CTTTGGGCTCAGTCTCTCCCTCCTCCAGTGGCTTCTCCAGCCCGCACAGCGGGAGCACCATCAGTATCCCCTTCC
CAAATGTCCTTCCCGACTTTTCCAAGGCTTCAGAAGCGGCCTCACCTCTGCCAGATAGTCCAGGTGATAAACTTG
TGATCGTGAAATTTGTTCAAGACACTTCCAAGTTCTGGTACAAGGCGGATATTTCAAGAGAACAAGCCATCGCCA
TGTTGAAGGACAAGGAGCCGGGCTCATTATTGTTTCGAGACAGCCATTCTTCCGAGGGGCTATGGCCTGGCCA
TGAAGGTGGCCACGCCCCACCTTCAGTCTGTCAGCTGAACAAGAAAGCTGGAGATTGGCCAATGAACTCGTCC
GGCACTTTTTGATCGAGTGTACCCCGAAGGGAGTGCAGTTGAAAGGGTGCTCGAATGAACCATATTTCCGGAGCC
TGACGGCCTTGGTGTGCCAGCATTCATCACGCCCTTGGCCTTGGCGTGCAAGCTGCTTATCCCAGAGAGAGATC
CATTGGAGGAAATAGCAGAAAGTTCTCCCCAGACGGCAGCCAATTCAGCAGCTGAGCTGTTGAAGCAGGGGGCAG
CCTGCAACGTGTGGTACTTGAACCTGTGTGGAGATGGAGTCCCTCACCGGCCACCAGGCGATCCAGAAGGCCCTGA
GCATCACCTTGGTCCAGGAGCTCCACCTGTGTCCACAGTTGTGCACTTCAAGGTGTCAGCCAGGGCATCACCC
TGACAGACAATCAGAGGAAGCTCTTCTTCCGGAGGCATTACCCCGTGAACAGTGTGATTTTCTGTGCCCTTGGACC
CACAAGACAGGAAGTGGATCAAAGATGGCCCTTCTCAAAGTCTTTGGATTTGTGGCCCGGAAGCAGGGCAGTG

[illegible]

2286/2825
FIGURE 2012

MVKCYHKKYRSATRDVIFRLQFHTGAVQGYGLVFGKEDLDNASKDDRFDPDYGKVELVFSATPEKIQGSEHLYNDH
GVIVDYNNTDPLIRWDSYENLSADGEVLHTQGPVDGSLYAKVRKKSSSDPGIPGGPQAIPATNSPDHSDHTLSVS
SDSGHSTASARTDKTEERLAPGTRRGLSAQEKAELDQLLSGFGLEDPGSSLKEMTDARSKYSGTRHVVPAQVHVN
GDAALKDRETDILDDEMPHHDLHSVDSLGLTSSSEGPQSAHLGPFTCHKSSQNSLLSDGFGSNVGEDPQGTILVPD
LGLGMDGPYERERTFGSREPKQPQPLLRLKPSVSAQMQAYGQSSYSTQTWVRQQQMVVAHQYSFAPDGEARLVSR
PADNPGLVQAQPRVPLTPTRGTSSRVAVQRGVSGPHPPDTQQPSPSKAFKPRFPDQVVNGAGPELSTGPPSGS
PTLDIDQSIEQLNRLILELDPTTFEPIPTHMNALGSQANGSVSPDSVGGGLRASSRLPDTGEGPSRATGRQGSSAE
QPLGGRLRKLKSLGQYDNDAGGQLPFSKCAWGKAGVDYAPNLPFPSPADVKETMTPGYPDLDIIDGRILSSKES
MCSTPAFPVSPETPYVKTALRHPPFSPPEPPLSSPASQHKGGREPRSCPETLTHAVGMSESPIGPKSTMLRADAS
STPSFQQAFASSCTISSNGPGQRRESSSSAERQWVESPKPMVSLLGSGRPTGSPLSAEFSGTRKDSPVLSCFPP
SELQAPFHSHELSLAEPDPSLAPPSSQAFLGFGTAPVSGSLPPEEDLGALLANSHGASPTPSIPLTATGAADNGF
LSHNFLTAVAGHSSHHSPGLQGQGVTLPGQPPLPEKKRASEGDRSLGVSVPSSSGFSSPHSGSTISIPFPNVLPD
FSKASEAASPLPDSPGDKLVIVKFVQDTSKFYKADISREQAIAMLDKEPGSFIVRDSHSFRGAYGLAMKVATP
PPSVLQLNKKAGDLANELVRHFLIECTPKGVRLKGCNEPYFGSLTALVCQHSITPLALPCKLLIPERDPLEEIA
ESSPQTAANSAAELLKQGAACNVWYLNSEVESLTGHQAIQKALSITLVQEPPPVSIVVHFKVSAQGITLTDNQR
KLFFRRHYPVNSVIFCALDPQDRKWKIDGPSSKVFGFVARKQGSATDNVCHLFAEHDPEQPASAIVNFVSKVMIG
SPKKV

2287/2825
FIGURE 2013

CCTTTGCCCTGAAGGGGGCTGGATGGGCAAGGCGGCCGCGATGGCTCGAGCTCGGGCGGTGGCGGCGGTGGCCGG
AGGCGGCGGTGCCTCCTCCTCCTCGCCCCGGCGCCGGCGGTGATCCGAGCGAGCGGCCCGCGGCCCGGATGAGAC
TGCTGGCGGGCTGGCTGTGCCTGAGCCTGGCGTCCGTGTGGCTGGCGCGGAGGATGTGGACGCTGCGGAGCCCGC
TCACCCGCTCCCTGTACGTGAAC**ATGA**CTAGCGGCCCGGGTGGGCCGGCGGCGGCCCGCGGGCGGCAGGAAGGAGA
ACCACCAGTGGTATGTGTGCAACAGAGAGAAATTATGCGAATCACTCCAGGCTGTCTTTGTTTCAGAGTTACCTTG
ATCAAGGAACACAGATCTTCTTAAACAACAGCATTGAGAAATCGGGCTGGCTATTTATCCAATTATATCATTCTT
TTGTGTCTATCTGTTTTTAGCCTGTTTATGTCTAGAACATCTATCAATGGGTTGCTAGGAAGAGGCTCAATGTTTG
TGTTTTACCCAGATCAGTTTCAGAGACTGCTTAAAAATTAATCCAGACTGGAAAACCCACAGACTTCTTGATTTAG
GTGCTGGAGATGGAGAAGTCACAAAAATCATGAGCCCTCATTTTGAAGAAATCTATGCCACTGAGCTTCTGAAA
CTATGATATGGCAGCTTCAGAAAAAGAAATACAGAGTCTTGGTATAAATGAATGGCAGAATACGGGGTTCAGT
ATGATGTCATCAGCTGCCTGAACTTGCTGGACCGCTGTGATCAGCCCTGACTTTGTTAAAGATATCAGAAGTG
TCTTGGAGCCAACTAGAGGCAGGGTCATCCTTGCCCTTGTCCTCCCCTTTTCATCCCTATGTGAAAAACGTAGGTG
GCAAGTGGGAGAAACCATCAGAAATTTTGAAATCAAAGGACAGAAGTGGGAAGAACAAGTGAATAGTCTGCCTG
AAGTTTTTCAGAAAAGCTGGTTTTGTATCGAAGCTTTCACCAGACTACCATACCTGTGTGAAGGCGACATGTATA
ATGACTACTACGTTCTGGATGACGCTGTCTTTGTTCTCAAACCAGTAT**TAA**ACACGTGGAGGTGCAAGTCTTCAGA
GTCCGCACCTCCGGGATGTGCCCTTGGAAGAGGGTCTGTGTTCACAATTACGTGAAGGGAGGACCCTTGGGGAC
CGCCATTCTAAATATCATGTAGGAATTTAAAAAGCCAAAATACTAATTATTTCTTTGTAGTGTGTAAAGGAATGT
TTTTAAAGACAAAAACCCAACTCTTTGTGGATTTTATCAACTCTTTACTCAGAGCCACTCTCCAATGCAGGTC
ACACTCCAATTATGATGGAAGATATTTTTTATACTTAATGCAGTAGGGACTCATTCCAGACAAAGCAATAGTC
ACGACTTCATGGAACCAATCAATGGATTGTTTTTTGAAGACTGGCAATAAAGCTGTCCATTCAATTCCAAATACT
GGTTTTAAGGTATAGCCACTGATATTCTTTCATGTTTAGAAATTCCTTCTGTTATTATTCAAGAAAATGTTTTTA
ATCATGCTAATAAACTTTTTTGGAGATGACTTTGGCATCATGTTTGAATTCATATAAAGCTCCCCTAGCATTTTT
TATTGGTTTGGCTTCAGGAGTACCCAAATAGTAGCATTATGAGAATGACGCAGACAATTTGAATAGGGGGGAAGG
AAGGCTTCAGACTTGGGGGAAGGGGAGATTATTGCAAATTGCAGTGAACACTGAGTCAGTAAAAAAAAAAAAACAG
AAACAAAAACCCAGCCTCATTAGATACAGAACTTCAGGGACCCCTCCCCCAGTTAATGCTGCTGT
GAAAAATGCAAAATAACCTGGTTCTGACTTTGTGATCACTCATGTCCCATACACTGAACCTTTGTTTTTTCTGGA
CAATCTCAGGTTCTCAGAATTGAAACATTGAGTTTTGTCTACTGACAAAATGCAACTAAAAATGTTTTAATTCAA
CTTCTTACTCTACACTTATATACCTCTCTCCAGAGCTTGGCTCTTCCCTGAAATCCTTAAAGGAGTTTATTATT
TGCCAAGAATATGGTTTGATGAAGACCGTGTGAGACTCATGCATTCTGGAATCCGTGAGTGCCTCCAACCATAAA
CCCAGAAATGCTGCCATAGAGGAACCCATTAGCAAGATCAATAACCATCGTGGATATTCCAAGAGCAGAGCATT
TAACCCAGAATCTGAAATCTCAGTAATAACAGAAATGTCAATATGAGATTGTGGTTATTAACAATATGTTATCCT
CACTACTTTATTTCTTTTTTTCATCCAGGTGTTTCATTAAGTATTCTCATTTATATGCTCATAGAAGTCATCAGAT
CAACACATTCACTCCAACACCTGGGTATAAAGGCGAATTAAACCTGAAGAATTACTTTATTATTCAATTAAGAAC
TGCAATCCACATCCTCACACCAATATCTTCCACTGTACTGTGCAGTCATAATAAGAGTTGGGTTATGTGATTT
ATGCAAAATTGTTATTGGTGTGTTCTAATGATTTTTTCCAGGAATTCAAGTAAGTGAAGTACAAATACTTAGCA
CCATAGATTGTAAAAATAGAAAGAGGAAATGAGAAAACCTAATGTCGTTCTTGTACAGTTGAGTTTTGCTTCTTT
ATAAACTGTCTGTAAAAATCAGGGGTTGCTGTTAGACTGTCAAGCAGAAGTGATGGATGTTCAAGGAGGCAGGTT
GCCCCAAAGTGTTTTCTAACTTTCAAGTAGAGAACTTTATGCTCTAATAAGAAAAATACAACCTATTCTTAACCA
CCCCCCCCAAAACAGAGAAAAACATACATTTATGCATTTTAAAGATAAAAAAGTAGTTTCTCAAAAAATCTGAAG
TTCTCTGAAAACAGCTTATTAAAGTGCTGTTTTGTGGTGAAAAATTGAAACCAATCCACTCACATTTCTATC
GGGTCTTGAAATTCTTGGTGGTGTGTACCATTCCTAGATGGCAGTGTTGCTTACTGAGTGTCAATGGCTTTT
TTCCCGTAAATGGAATCATGTTTTTCTCCCCAAAGTACAATAAAGCTGCCTTGTCTGCACCAAAACAAAAA
AAAAAAAAAAAAA

2288/2825
FIGURE 2014

MTSGPGGPAAAAGGRKENHQWYVCNREKLCESLQAVFVQSYLDQGTQIFLNNSIEKSGWLFIQLYHSFVSSVFSL
FMSRTSINGLLGRGSMFVFSPDQFQRLKINPDWKTHRLLDLGAGDGEVTKIMSPHFEEIYATELSETMIWQLQK
KKYRVLGINEWQNTGFQYDVISCLNLLDRCDQPLTLLKDIRSVLEPTRGRVILALVLPFHPYVENVGKWEKPSE
ILEIKGQNWEEQVNSLPEVFRKAGFVIEAFTRLPLYLCEGDMYNDYYVLDDAVFVLKPV

2289/2825
FIGURE 2015

GGCCGGCGCCTCCTCCTGGATTCACTCACTCGCTCTTTTCATTACGAAGGTAGTGAGGCCTAGTGGAAGCCAT
GAGAGCGCTCTCCCCGCCCGCGGCTTCTGTACTGGGTCGGCGCGGGCACCGTGGCCTACCTAGCCCTGCGTAT
TTCGTA CTGCTCTTCACGGCCCTCCGGGCTCGGGGAGTGGGGAATGAGGCGGGGGTGGCCCCGGGGCTCGGAGA
GTGGGCAGTTGTACAGGTAGTACTGATGGAATTGGAATATCATATGCAGAAGAGTTAGCAAAGCATGGAATGAA
GGTTGTCTTATCAGCAGATCAAAGGATAAACTTGACCAGGTTTCCAGTGAAATAAAAGAAAAATTCAAAGTGGA
GACAAGAACCATTGCTGTTGACTTTGCATCAGAAGATATTTATGATAAAATTAAACAGGCTTGGCTGGTCTTGA
AATCGGCATCTTAGTGAACAACGTGGGAATGTCGTATGAGTATCCTGAATACTTTTTGGATGTTCTGACTTGGA
CAATGTGATCAAGAAAATGATAAATATTAATATTCTTTCTGTTTGTAAGATGACACAATTGGTACTGCCTGGCAT
GGTGGAAGATCCAAAGGGCTATTCTGAACATTCATCTGGCAGTGGCATGCTCCCTGTCCCACTCTTGACCAT
CTATTCTGCAACCAAGACTTTTGTAGATTTCTTCTCTCAGTGCCTCCATGAGGAGTATAGGAGCAAGGGCGTCTT
TGTGCAGAGTGTCTGCCATACTTCGTAGCTACAAACTGGCTAAAATCCGGAAGCCAACCTTTGGATAAGCCCTC
TCCGGAGACGTTTGTGAAGTCTGCAATTAACAGTCGGCCTGCAATCCGAACCAATGGATACCTGATCCATGC
TCTTATGGGCTCGATAATCTCAAACCTGCCTTCTTGGATTTATTTGAAAATAGTCATGAATATGAACAAGTCTAC
ACGGGCTCACTATCTGAAGAAAACCAAGAAGAACTAAGCATGATAACTGCATTGTAACCTGGCCAGATGCTCCAG
CATATGCACGTTCACTGCAAAGCACCCCTACTGGTTTTGAAAATCTGACCTTGTCAATTTCAATAGTTATTAACATG
ACTAAATATTATCTTAATTAAGAGGAAAATAGAAGTTGCTTTTAGGGGTTTCTGACATATATTCTGGATACTATC
CGAGGTAATTTTGAAGTTTAATATAAATGCTCATATCAAATGAATATAGAATAATATTGTGGGAACACCTAAT
AGAAAGGAATACTATTATAGCAAATCACAGAATGATAGACTCAAGCATAAACTTGGCAGTTTTATCTGCTTCAA
AATGCCATTGATCATTATTCTGTATTTTCTCTGAAACTGATTATAAAACCAATGTCCAGCTACTCTTTTGT
TTGACACTTGAAGAAATGGAGATCGATTTGATTTGTTTATAAGCAGACACACTGCAATTTACAAAGATCTCTTTA
CGGTTTTATAAAATTATCTTCCAGTTTGTACATTTATATGGAATTGTTCTTTATCAAGGGTAGCTAATGACATGA
AAATAATTGTGAAATATGGAATTATTTCTGACACATGAAGCCCACTAACTATGCTTTTCTATAATGCATATTTCT
TTCTCAGTTTAAATGTATGTAAATATCGAAGCTATATGGTATGATTTATAAGATAAATGGGCCAAAGTGATACAT
TGAGACTGGCAGCCATCTATGGTACCCTGAAACCCCTGACCCAGAAAAGTGGCTTGGCTTGGACACCCAGCTGCCT
TTGTTTCTGCATTAAACCAATATTGATCACACATATGACACAGGCTAGTCCTATAAAAGTAATGACTTCATAGAA
ATGGCATTATAATTTTAAAGTTGATACTCTACAGGTAGCTATTGATATAATTAGTTTTAATAAAACATGCTGCAA
CCATGGTATACAACAAAAATACATTTCTTTGGTGATTGAAATTAAGGCCGATTTACAATGACTTAATATAAGAC
TGACTTTTATCCTGCTTCATAACTTGTATGGAGA ACTCACCAAGAAAGAATTCAATACTGTGAAATATGCAGCAA
GAAGATTGGTCTTTACCTAGGCTGTGTTTCTAAGCTCTGAGTTTTTCAGCACCAGTAGATTGTATTAAAGAAA
AAAAATGGGGCCTTAGCTTCTGGCTTTTAATTTTGCCAGCTAAGGACATAAAACAAAAATAAACAAACAAAAAC
AAATAGCCATCTGCTATCAGCATCATTATGTAAAAGAAAAATATATTTTAGCCCCTAAAATTAGGAAGAATGTAAT
CTCAGAATAAAGGTTGTCATTTAAGTTGAATAAATATATAGCTTTATGAAAAACACAAAAA

2290/2825
FIGURE 2016

MESALPAAGFLYWVGAGTVAYLALRISYSLFTALRVWVGNEAGVGPLGEWAVVTGSTDGIGKSYAEELAKHGM
KVVLI SRSKDKLDQVSSEIKEKFKVETRRTIAVDFASEDIYDKIKTGLAGLEIGILVNNVGMSYEYPEYFLDVPDL
DNVIKKMININILSVCKMTQLVLPGMVERSKGAILNISSGSGMLPVPLTTIYSATKTFVDFFSQCLHEEYRSKGV
FVQSVLPYFVATKLAKIRKPTLDKPSPETFVKSAIKTVGLQSRNGYLIHALMGSIISNLPSWIYLYLKIVMNMNKS
TRAHYLKKTCKN

2291/2825
FIGURE 2017

ACCACAGTGGTGTCCGAGAAGTCAGGCACGTAGCTCAGCGGCGGCCGCGGCGCGTGCCTCTGCGCGG
GTCTCCTGGTCCTTCTGCCATCATGCCGATGTTTCATCGTAAACACCAACGTGCCCCGCGCCTCCGTGCCGGACGG
GTTCTCTCCGAGCTCACCCAGCAGCTGGCGCAGGCCACCGGCAAGCCCCCCCAGTACATCGCGGTGCACGTGGT
CCCGGACCAGCTCATGGCCTTCGGCGGCTCCAGCGAGCCGTGCGCGCTCTGCAGCCTGCACAGCATCGGCAAGAT
CGGCGGCGCGCAGAACCGCTCCTACAGCAAGCTGCTGTGCGGCCTGCTGGCCGAGCGCCTGCGCATCAGCCCGGA
CAGGGTCTACATCAACTATTACGACATGAACGCGGCCAATGTGGGCTGGAACAACCTCCACCTTCGCCTAAGAGCC
GCAGGGACCCACGCTGTCTGCGCTGGCTCCACCCGGGAACCCGCCGCACGCTGTGTTCTAGGCCCGCCACCCCA
ACCTTCTGGTGGGGAGAAATAAACGGTTTAGAGACT

2292/2825
FIGURE 2018

MPMFIVNTNVPRASVPDGFELSELTQQLAQATGKPPQYIAVHVVPDQLMAFGGSSEPCALCSLHSIGKIGGAQNRS
YSKLLCGLLAERLRISPDRVYINYYDMNAANVGWNNSTFA

2293/2825
FIGURE 2019

ACTGGAAGACCAGGCAGCCCAGCTGAAGGCAGTAAGCTCGGCTCACAGTCGCAGGAGAGTTCTGGGGTACACGGG
CAAAGGGGCTTGAGAAGGCCCGAGGCGAAGCCGAAGAGAAGCAACTGTGCCCCGAGAAGAGAAGCTCGCCCAT
TCCAGACTGGGAACCAGCTTTCAGTGAAGATGGCAGGGCCAGAACTGTTGCTCGACTCCAACATCCGCCTCTGGG
TGGTCCTACCCATCGTTATCATCACTTTCTTCGTAGGCATGATCCGCCACTACGTGTCCATCCTGCTGCAGAGCG
ACAAGAAGCTCACCCAGGAACAAGTATCTGACAGTCAAGTCCTAATTCGAAGCAGAGTCCTCAGGGAAAATGGAA
AATACATTCCCAAACAGTCTTTCTTGACACGAAAATATTATTTCAACAACCCAGAGGATGGATTTTTCAAAAAAA
CTAAACGGAAGGTAGTGCCACCTTCTCCTATGACTGATCCTACTATGTTGACAGACATGATGAAAGGGAATGTAA
CAAATGTCCTCCCTATGATTCTTATTGGTGGATGGATCAACATGACATTCTCAGGCTTTGTCACAACCAAGGTCC
CATTTCCTGACCCCTCCGTTTTTAAGCCTATGTTACAGCAAGGAATCGAGCTACTCACATTAGATGCATCCTGGG
TGAGTCTGCATCCTGGTACTTCCTCAATGTATTTGGGCTTCGGAGCATTTACTCTCTGATTCTGGGCCAAGATA
ATGCCGCTGACCAATCACGAATGATGCAGGAGCAGATGACGGGAGCAGCCATGGCCATGCCCCGAGACACAAACA
AAGCTTTCAGACAGAGTGGAAGCTTTGGAGCTGACGGATCACCAGTGGGCACTAGATGATGTGGAAGAAGAGC
TCATGGCCAAAGACCTCCACTTCGAAGGCATGTTCAAAAAGGAATTACAGACCTCTATTTTTTTGAAGACCGAGCA
GGGATTAGCTGTGTCAGGAACCTTGAGTTGCACTTAACCTTGTAACCTTGTGTTGGAGCTGGCACCTCTTGAAATA
AAAAGGAGGATGCACGAGCTGGCAGGCATGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

2294/2825
FIGURE 2020

MAGPELLLLDSNIRLWVVLPIVITFFVGMIRHYVSILLQSDKKLTQEQVSDSQVLIRSRVLRENGKYIPKQSFLT
RKYYFNNPEDGFFKKTKRKVVPSPMTDPTMLTDMMKGNVTNVLPMILIGGWINMTFSGFVTTKVPFPLTLRFKP
MLQQGIELLTLDASWVSSASWYFLNVFGLRSIYSLILGQDNAADQSRMMQEQMTGAAMAMPADTNKAFKTEWEAL
ELTDHQWALDDVEEELMAKDLHFEGMFKKELQTSIF

2295/2825
FIGURE 2021A

GGCCTCGCCTGCGGCCGCTCCCTCCGCCTCCTCCCCGCCCGAGCCCCAGTCAGCCCGTCTTCCCTCCCCCTCCCT
TGCATGATGGAAACACCATGGCTGCGGCGGCCAGCTCTCTCTGACACAGTTATCAAGTGGGAATCCTGTATATG
AAAAATACTATAGACAGGTTGATACAGGCAATACTGGAAGGGTGTGGCTTCTGATGCTGCTGCTTTCCCTGAAAA
AATCAGGGCTTCCAGACTTGATACTTGGAAGATTGGGATTTAGCCGACACAGATGGCAAAGGTATCCTGAACA
AACAAGAATTCTTTGTTGCTTTGCGTCTTGTGGCATGTGCCCAGAATGGATTGGAAGTTTCACTAAGTAGTTTGA
ACCTGGCTGTTCCCTCCACCAAGATTTTCATGATACCAGTAGTCCTTTGCTAATCAGTGGAACTCTGCAGCTGAGC
TCCCATGGGCTGTAAAACCTGAAGATAAGGCCAAATATGATGCAATATTTGATAGTTTAAAGCCAGTGAATGGAT
TTCTGTCTGGTGATAAAGTGAAACAGTGTGCTCAACTCTAAGTTACCTGTGGATATCCTTTGGAAGAGTAAGAT
ATTATTTACTCCGAAATGTTTGGGAGTTGAGTGATATTGACCATGATGGAATGCTTGACAGAGATGAGTTTGCAG
TTGCCATGTTTTTGGTATACTGTGCACTGGAGAAAAGAACTGTGCCAATGTCCTTGCCCTCCAGCCTTGGTGCCAC
CATCTAAGAGAAAAACGTGGGTGTATCCCCCTGCAGAAAAAGCTAAATATGATGAAATCTTCCCTGAAAACCTGATA
AAGATATGGACGGATTGTGTCTGGATTGGAGGTCCTGAAATATTCTTGAAAACAGGTTTACCTTCTACCTTAC
TAGCCCATATATGGTCATTATGCGACACAAAGGACTGTGGGAAGCTTTCAAAGGATCAGTTTGCCTTGGCTTTTC
ACTTAATCAGTCAGAAGTTAATCAAGGGCATTGATCCTCCTCACGTTCTTACTCCTGAAATGATTCCACCATCAG
ACAGGGCCAGTTTACAAAAGAACATCATAGGATCAAGTCTGTGTCAGATTTCTCTGCTATTAAGGAAGTAGATA
CTCTTAACAATGAAATAGTTGACCTACAGAGGGAAAAGAATAATGTGGAACAGGACCTTAAGGAGAAGGAAGATA
CTATTAAACAGAGGACAAGTGAGGTTCAAGATGAAGTTCAAAGGGAGAATACTAATCTGCAAAAAC
TACAGGCCCAGAAACAGCAGGTACAGGAACCTCTTGATGAAGTGGATGAGCAGAAAGCCAGCTGGAGGAGCAAC
TCAAGGAAGTCAGAAAGAAATGTGCTGAGGAGGCCCAACTGATCTCTTCTCTGAAAGCTGAATTAAGTAGTCAGG
AATCGCAGATCTCCACTTATGAAGAAGAATTGGCAAAAGCTAGAGAAGAGCTGAGCCGTCTACAGCAAGAAACAG
CAGAATTGGAGGAGAGTGTAGAGTCAGGGAAGGCTCAGTTGGAACCTCTTCAGCAGCACCTACAAGATTCAAC
AGGAAATTAGTTCAATGCAATGAACTGATGGAAATGAAAGATTGGAAAATCATAATAGTCAGTTAAATTGGT
GCAGTAGCCACACAGCATTCTTGTAACGGAGCTACAGATTATTGCAGCCTCAGCACCAGCAGCAGTGAACAG
CCAACCTTAATGAACATGTTGAAGGCCAGAGCAACCTAGAGTCTGAGCCCATACACCAGGAATCTCCAGCAAGAA
GTAGTCCTGAACTACTGCCTTCTGGTGTGACTGATGAAAATGAGGTGACTACAGCTGTTACTGAAAAAGTTTGT
CTGAACTCGACAATAATAGACATTCAAAAGAGGAAGATCCATTTAATGTAGACTCAAGTTGCTGACAGGTCAG
TTGCAGATACAACTTGGAATTTTTTCCAGTCTGATCCTTTTGTGGCAGTGATCCTTTCAAGGATGATCCTTTTG
GAAAAATCGATCCATTTGGTGGTGATCCTTTCAAAGGTTGAGATCCATTTGCATCAGACTGTTTCTTCAGGCAAT
CTACTGATCCTTTTGCCACTTCAAGCACTGACCCTTTCAGTGCAGCCAACAATAGCAGTATTACATCGGTAGAAA
CGTTGAAGCACAAATGATCCTTTTGCTCCTGGTGGAAACAGTTGTTGCAGCAAGCGATTTCAGCCACAGACCCCTTTG
CTTCTGTTTTTGGGAATGAATCATTTGGAGGTGGATTGCTGACTTCAGCACATTGTCAAAGGTCAACAATGAAG
ATCCTTTTTCGTTTCAGCCACATCGAGCTCTGTGAGCAACGTAAGTATTACAAAAAATGATTTTGAGGAAACATCGG
TCAAAAAGTGAAGATGAACCCCCAGCACTGCCACCAAAGATCGGAACCCAACAAGACCCCTGCCCTCTACCACCTG
GGAAAAGATCCATCAACAAATTGGATTCTCCTGATCCCTTTAACTGAATGATCCATTTTCAGCCTTTCCCAGGCA
ACGATAGCCCCAAAGAAAAAGATCCTGAAATATTTTGTGATCCATTCACTTCTGCTACTACCACTACCAATAAAG
AGGCTGATCCAAGCAATTTTGCCAACTTCAGTGCTTATCCCTCTGAAGAAGATATGATCGAATGGGCCAAGAGGG
AAAGTGAGAGAGAGGAAGAGCAGAGGCTTGCCCGACTAAATCAGCAGGAACAAGAAGACTTAGAACTGGCTATTG
CACTCAGCAAATCTGAGATATCAGAAGCATGAAGAATTCTCTTGTCTTTGGCAACAATATAGTATTCTTCTTCC
TGAATACTGAACTATTTACAATGTGTATCAAACTACCTGTGAGCATGGGAATACAAAAGGTTTGAGATTCTTG
TAAATGTGACAAAATTTTAGGATTTTTTTTTTTTCTTCATTACAGATTTCGCTTTTTTTTTTTTTCTTATAAAAG
CCGTAACCCAGTCAGACAAATTCACCTTCACTTAGGCCCTGTCTGGTATACATTTACTGTGAGCTTTTGCCCTG
CCTGTGCTATTTTACTTGTAAAGCTAGAGCACCCAAGCTTCTGCCTTCTGGAATATAGAGAAATAGTTTACCCCT
GCACTACCCGTGTTCTGTAGTTATTCTGATGATAGCCAGTGAGGTTCTTAAAGTTTGAGTATTCTCCCCTGATTG
GAATGGTTGAGTGAGGGTAAGGGAAGAATATCTTATTTCTTTTATGATTGGTGAAATTGGCTAAAGTGCATTT
TTAAATTTCTCTACTTAATTTGTTTTTTCAGAGATAAGGAAAAATATTTTGCACAGATTTACTCCACTATGGAAA
AGGGATGCTGTAGGTTGAACCATTATAGCCTCAGATTCGATCTTTTCTAACTAAAAATATTAAGCCTCATGTG
TGAAATAAAATTTTTAAAAAGATTTATCTGGATTTAGAGAATTTTAGATCAACAGATACCTCTCAGTGTGTTTGCT
AATTAATAAAAAATCAGTTTCTTACAAATAAAGTTTGTAAAGAAATGTTTCAATTTAAGTGATAGATAGTGGAGAAA

2296/2825
FIGURE 2021B

ATTATCACCTAAATATACCCATCAGTATAAGGCAAGCAAAAGTCTTAACATGGCAGCCATTCTGCCTTTGCCG
TGGCCCTGTCCTGTTTAGTTCTTAGTGGGTTAATTTTTGTACTTTTGCAGAAGAACTTCAGCAAGCTAGAACTG
GAAGGTACTTTAATTTTTCATATATATTTGTTTTTTTTTTTTTAATGAAGGCTCATTCTGAAATGTAAAAAC
TTTCACTGAATACAAATAGAAAAAGTGATGTGTTTTATATCATATTGCTTTTTGTCCATCTTTGTGGTTTAGTTT
ATTTACTCACTTCATGTTTTTCACCTATAAAATTGTCAAGCTAGCAAAAAAACTCTTGTTTTTTAATTGGGAGA
GAAGAGACCTGCCAGATTATCAGACCTCTTCATGTTAAAAGACCATCTCCTGTAAAACCTGACCTAGTGGACAAGC
TGAATTTGAAATAGACTGTGAAGTAAGCTGTAACTTGTCAATTTTAATTTTGTGTTAACACGGTTACTGACTTAGAT
GATGTATTAAATACCAAGATAAAGAAAAATGCACCTAAAATCTAATTAGAATTCTCTGGGTCACCAAGTCAAGGT
GGTATTGATCTGTGTTAATCTGAGTAACTTATTGCCTAGCCTATAAATAAATTCCAAAATATCCAATTCATTTCT
TCTTGAAATGGTGCTTGTTTTGTTTTCTTTCCATTACACAATTAGACTCCTACAGTTTTAAACAAACTTTAAACC
ACTATCTTGCACTGCTAACTTTTTTCTACCTTTGTAAATAGAAACATTTCTGCATAAAAGTCATACATATGAAGC
AAGGGCTGAATCATAATCACAAGGCTTAATTTTGATAAACGAATCCAGTGACCTAAGGATTTTCTGCAAAATTTG
ACTGGGAGTTGTGATAGGTGGTATTTTTGTTTATTTTCTTCCTCTTACTCCTTAGGATAAAGGTAAGTTGACTTG
AACAACTTTCTTTTGCACTGGGAAAATAAGCAAATGTTTAAATGCTTCAAAAAAATTTCAATTAACTCAAATA
TTAAATATCTATAACTTATAAACACCAACTTTCAATGTAATAAATGTATCCTAATCTTATGTATGTTTAACTGGA
TTACATAGATTTTTATCTTTTGTTAAAATGTGTATACCCCGTGGACCAACATAATATTAAAGTATGTATATATTA
TATAAATATATATGTATATGTGCTCGCTTGTTAGGATGAATGTCTTAGAGTCGTTTGTTGGTATTTTATGTTGTT
GACTCTGGCTCCAGGGCCTGTGCTTGAAAAGGACAGATAAGTATTGCCAGAGCTAAGTGGCACTACTTACAAAG
TTTTAAATGTCTTCTACATACTGATTTCATGTTTATTTGAGCTCTCTTTATAGAATTTTCTCTTAAAGTTTCAAAC
CTCTAAGTTGTAGCCTGTAATTATGAGAACAGTAACTTTAAGTAATAATAAAGAATCCCATCCATATATCCAAT
TTGCAATTGAGTTTTGCATGGTTCTCTGATTATGTCCATGCTGTGTCCAAGGAGGAGTAGGTACATACAATCAGC
ACAGATTAATATATGTAAAGGGTTTGGGACAGCACCTGGTATAGAATAAATAAATAAATGTAACTATTCAAAAAA
AATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATG

2297/2825
FIGURE 2022

PRLRPLPPPPRPEPQSARLPSPFLHDGNTMAAAQLSLTQLSSGNPVYEKYYRQVDTGNTGRVLASDAAAFLLKK
SGLPDLILGKIWDLADTDGKGILNKQEFFVALRLVACAQNGLEVSLSSLNLAVPPPRFHDTSPLLISGTSAAEL
PWAVKPEDKAKYDAIFDSLSPVNGFLSGDKVKPVLLNSKLPVDILGRVRYLLRNWELSDIDHDGMLDRDEFV
AMFLVYCALEKEPVPMSLPPALVPPSKRKTWVVSPEAKAKYDEIFLKTDKMDMGFVSGLEVREIFLKTGLPSTLL
AHIWSLCDTKDCGKLSKDQFALAFHLISQKLIKIDPPHVLTPEMIPPSDRASLQKNIIGSSPVADFSAIKELDT
LNNEIVDLQREKNNVEQDLKEKEDTIKQRTSEVQDLQDEVQRENTNLQKLQAQKQQVQELLDELDEQKAQLEEQ
KEVRKKCAEEAQLISSLKAELTSQESQISTYEEELAKAREELSRLQQETAEELESVESGKAQLEPLQQHLQDSQQ
EISSMQMKLMEMKDLNHNSQLNWCSSPHSILVNGATDYCSLSTSSSETANLNEHVEGQSNLESEPIHQESPARS
SPELLPSGVTDENEVTTAVTEKVCSELDNNRHSKEEDPFNVDSSSLTGPVADTNLDFFQSDPFVGSDFKDDPFG
KIDPFGGDPFKGSDPFASDCFFRQSTDEFATSSSTDPFSAANNSSITSVETLKHNDPFAPGGTVVAASDSATDPFA
SVFGNESFGGGFADFSTLSKVNNEDPFRSATSSSVSNVITKNVFEETSVKSEDEPPALPPKIGTPTRPCPLPPG
KRSINKLDSPDPFKLNDPFQPFPGNDSPKEKDPEIFCDPFTSATTTTNKEADPSNFANFSAYPSEEDMIEWAKRE
SEREEEQRLARLNQQEQEDLELAIALSKSEISEA

2298/2825
FIGURE 2023

CAGAGCTGCTGTC**ATG**GCGGCCGCTCTGTGGGGCTTCTTTCCCGTCCTGCTGCTGCTGCTGCTATCGGGGGATGT
CCAGAGCTCGGAGGTGCCCGGGGCTGCTGCTGAGGGATCGGGAGGGAGTGGGGTCGGCATAGGAGATCGCTTCAA
GATTGAGGGGCGTGCAGTTGTTCCAGGGGTGAAGCCTCAGGACTGGATCTCGGCGGCCCGAGTGCTGGTAGACGG
AGAAGAGCACGTCGGTTTTCTTAAGACAGATGGGAGTTTTGTGGTTCATGATATACCTTCTGGATCTTATGTAGT
GGAAGTTGTATCTCCAGCTTACAGATTTGATCCCGTTCGAGTGGATATCACTTCGAAAGGAAAAATGAGAGCAAG
ATATGTGAATTACATCAAAACATCAGAGGTTGTCAGACTGCCCTATCCTCTCCAAATGAAATCTTCAGGTCCACC
TTCTTACTTTATTAAAAGGGAATCGTGGGGCTGGACAGACTTTCTAATGAACCCAATGGTTATGATGATGGTTCT
TCCTTTATTGATATTTGTGCTTCTGCCTAAAGTGGTCAACACAAGTGATCCTGACATGAGACGGGAAATGGAGCA
GTCAATGAATATGCTGAATTCCAACCATGAGTTGCCTGATGTTTCTGAGTTCATGACAAGACTCTTCTCTTCAAA
ATCATCTGGCAAATCTAGCAGCGGCAGCAGTAAACAGGCAAAAGTGGGGCTGGCAAAGGAGG**TAGT**CAGGCCG
TCCAGAGCTGGCATTTCACAAACACGGCAACACTGGGTGGCATCCAAGTCTTGAAAACCGTGTGAAGCAACTA
CTATAAACTTGAGTCATCCCGACGTTGATCTCTTACAACGTGTGTATGTTAACTTTTTAGCACATGTTTTGTACTT
GGTACACGAGAAAACCCAGCTTTCATCTTTTGTCTGTATGAGGTCAATATTGATGTCACTGAATTAATTACAGTG
TCCTATAGAAAATGCCATTAATAAATTATATGAACTACTATACATTATGTATATTAATTAAAACATCTTAATCCA
GAAAAAAAAAAAAAAAAAAAAA

2299/2825
FIGURE 2024

MAAALWGFFPVLLLLLLSGDVQSSEVPGAAAEGSGGSGVGIGDRFKIEGRAVVPGVKPDWISAARVLVDGEEHV
GFLKTDGSFVVHDIPSGSYVVEVVSPAYRFDPVRVDITSKGKMRRARYVNYIKTSEVVRLPYPLQMKSSGPPSYFI
KRESWGWTDFLMNPMVMMMLPLLIIFVLLPKVVNTSDPDMRREMEQSMNMLNSNHELPDVSEFMTRLFSSKSSGK
SSSGSSKTGKSGAGKRR

2300/2825
FIGURE 2025

GCGGAGCTCCGCATCCAACCCCGGGCCGCGGCCAACTTCTCTGGACTGGACCAGAAGTTTCTAGCCGGCCAGTTG
CTACCTCCCTTTATCTCCTCCTTCCCTCTGGCAGCGAGGAGGCTATTTCCAGACACTTCCACCCCTCTCTGGCC
ACGTCACCCCGCCTTTAATTCATAAAGGTGCCCGGCGCCGGCTTCCCGGACACGTCGGCGGGCGGAGAGGGGCCC
ACGGCGGGCGGCCCGGCCAGAGACTCGGCGCCCGGAGCCAGCGCCCCGCACCCGCGCCCCAGCGGGCAGACCCCAA
CCCAGC**ATG**AGCGCCGCCACCCACTCGCCCATGATGCAGGTGGCGTCCGGCAACGGTGACCGCGACCCTTTGCC
CCCGGATGGGAGATCAAGATCGACCCGAGACCCGGTGGCCCTTCTTCGTGGACCACAACAGCCGCACCACTACG
TGGAACGACCCGCGCGTGCCCTCTGAGGGCCCCAAGGAGACTCCATCCTCTGCCAATGGCCCTTCCCGGGAGGGC
TCTAGGCTGCCGCCTGCTAGGGAAGGCCACCCTGTGTACCCCCAGCTCCGACCAGGCTACATTCCCATTCTCTGTG
CTCCATGAAGGCGCTGAGAACCGGCAGGTGCACCCTTTCCATGTCTATCCCCAGCCTGGGATGCAGCGATTCCGA
ACTGAGGCGGCAGCAGCGGCTCCTCAGAGGTCCAGTACCTCTGCGGGGCATGCCAGAAACCACTCAGCCAGAT
AAACAGTGTGGACAGGTGGCAGCGGCGGCGGCAGCCAGCCCCAGCCTCCCACGGACCTGAGCGGTCCCAGTCT
CCAGCTGCCTCTGACTGCTCATCCTCATCCTCCTCGGCCAGCCTGCCTTCTCCTCCGGCAGGAGCAGCCTGGGCAGT
CACCAGCTCCCGCGGGGGTACATCTCCATTCCGGTGATACACGAGCAGAACGTTACCCGGCCAGCAGCCAGCCC
TCCTTCCACCAAGCCCAGAAGACGCACTACCCAGCGCAGCAGGGGGAGTACCAGACCCACCAGCCTGTGTACCAC
AAGATCCAGGGGGATGACTGGGAGCCCCGGCCCCCTGCGGGCGGCATCCCCGTTAGGTCTGTGCCAGGGTGCA
TCGAGCCGGGAGGGCTCACCAGCCAGGAGCAGCACGCCACTCCACTCCCCCTCGCCCATCCGTGTGCACACCGTG
GTCGACAGGCCTCAGCAGCCCATGACCCATCGAGAACTGCACCTGTTTCCAGCCTGAAAAACAAACCAGAAAGT
AAGCCAGGCCCAGTTGGACCAGAACTCCCTCCTGGACACATCCCAATTCAAGTGATCCGCAAAGAGGTGGATTCT
AAACCTGTTTCCAGAAAGCCCCACCTCCCTCTGAGAAGGTAGAGGTGAAAGTTCCCCCTGCTCCAGTTCCTTGT
CCTCCTCCCAGCCCTGGCCCTTCTGCTGTCCCTCTTCCCCCAAGAGTGTGGCTACAGAAGAGAGGGCAGCCCCC
AGCACTGCCCCCTGCAGAAGCTACACCTCCAAAACCAGGAGAAGCCGAGGCTCCCCCAAAACATCCAGGAGTGCTG
AAAAGTGGAAGCCATCCTGGAGAAGGTGCAGGGGCTGGAGCAGGCTGTAGACAACCTTTGAAGGCAAGAAGACTGAC
AAAAAGTACCTGATGATCGAAGAGTATTTGACCAAAGAGCTGCTGGCCCTGGATTAGTGGAACCCCGAGGGACGA
GCCGATGTGCGTCAGGCCAGGAGAGACGGTGTGAGGAAGGTTAGACCATCTTGAAAAAATTGAACAGAAAGCC
ATTGATGTCCCAGGTCAAGTCCAGGTCTATGAACTCCAGCCCAGCAACCTTGAAGCAGATCAGCCACTGCAGGCA
ATCATGGAGATGGGTGCCGTGGCAGCAGACAAGGGCAAGAAAAATGCTGGAAATGCAGAAGATCCCCACACAGAA
ACCCAGCAGCCAGAAGCCACAGCAGCAGCGACTTCAAACCCAGCAGCATGACAGACACCCCTGGTAACCCAGCA
GCACCG**TAG**CCTCTGCCCTGTAAAAATCAGACTCGGAACCGATGTGTGCTTTAGGGAATTTTAAGTTGCATGCAT
TTCAGAGACTTTAAGTCAGTTGGTTTTTATTAGCTGCTTGGTATGCAGTAACCTGGGTGGAGGCAAAACACTAAT
AAAAAGGGCTAAAAAGGAAAATGATGCTTTTCTTCTATATTCTTACTCTGTACAAATAAAGAAGTTGCTTGTGTG
TGAGAAGTTTAACCCGTTGCTTGTCTGCAGCCCTGTCTACTTGGGCACCCCCACCACCTGTAGCTGTGGTTG
TGCACTGTCTTTTGTAGCTCTGGACTGGAGGGGTAGATGGGGAGTCAATTACCCATCACATAAATATGAAACATT
TATCAGAAATGTTGCCATTTTAATGAGATGATTTTCTTCATCTCATAATTAAATACCTGACTTTAGAGAGAGTA
AAATGTGCCAGGAGCCATAGGAATATCTGTATGTTGGATGACTTTAATGCTACATTTTAAAAAAGAAAAATAAG
TAATAATATAACTCAA

2301/2825
FIGURE 2026

MSAATHSPMMQVASGNGDRDPLPPGWEIKIDPQTGWFFFVDHNSRTTTWNDPRVPSEGPKETPSSANGPSREGSR
LPPAREGHPVYPQLRPGYIPIPVLHEGAENRQVHPFHVYPQPGMQRFRTAAAAAPQRSQSPLRGMPETTQPDKQ
CGQVAAAAAAQPPASHGPERSQSPAASDCSSSSSSASLPSSGRSSLGSHQLPRGYISIPVIHEQNVTRPAAQPSF
HQAQKTHYPAQQGEYQTHQPVYHKIQGDDWEPRPLRAASPFRRSSVQGASSREGSPARSSTPLHSPSPIRVHTVVD
RPQQPMTHRETAPVSQPENKPESKPGPVGPELPPGHIPIQVIRKEVDSKPVSKPPPPSEKVEVKVPPAFVPCPP
PSPGPSAVPSSPKSVATEERAAPSTAPAEATPPKPGAEAPPKHGVLKVEAILEKVQGLEQAVDNFEGKKTDDK
YLMIEEYLTKEALLDSVDPEGRADVRRQARRDGVRKVQTILEKLEQKAIDVPGQVQVYELQPSNLEADQPLQAIM
EMGAVAADKGKKNAGNAEDPHTETQQPEATAAATSNPSSMTDTPGNPAAP

2302/2825
FIGURE 2027

GGCACGAGGGTTTTCTCCGCGGGCGCCTCGGGCGGAACCTGGAGATA**ATG**GGCAGCACCTGGGGGAGCCCTGGCT
GGGTGCGGCTCGCTCTTTGCCTGACGGGCTTAGTGCTCTCGCTCTACGCGCTGCACGTGAAGGCGGCGCGCGCCC
GGGACCGGGATTACGCGCGCTCTGCGACGTGGGCACCGCCATCAGCTGTTTCGCGCGTCTTCTCCTCCAGGTGGG
GCAGGGGTTTCGGGCTGGTGGAGCATGTGCTGGGACAGGACAGCATCCTCAATCAATCCAACAGCATATTCGGTT
GCATCTTCTACACACTACAGCTATTGTTAGGTTGCCTGCGGACACGCTGGGCCTCTGTCTGATGCTGCTGAGCT
CCCTGGTGTCTCTCGCTGGTTCTGTCTACCTGGCCTGGATCCTGTTCTTCGTGCTCTATGATTTCTGCATTGTTT
GTATCACCACCTATGCTATCAACGTGAGCCTGATGTGGCTCAGTTTCCGGAAGGTCCAAGAACCCCAGGGCAAGG
CTAAGAGGCAC**TGAG**CCCTCAACCCAAGCCAGGCTGACCTCATCTGCTTTGCTTTGGCATGTGAGCCTTGCCCTAA
GGGGGCATATCTGGGTCCCTAGAAGGCCCTAGATGTGGGGCTTCTAGATTACCCCTCCTCCTGCCATACCCGCA
CATGACAATGGACCAAATGTGCCACACGCTCGCTCTTTTTTACACCCAGTGCCTCTGACTCTGTCCCCATGGGCT
GGTCTCCAAAGCTCTTTCATTGCCCAGGGAGGGAAGGTTCTGAGCAATAAAGTTTCTTAGATCAATCAAAAAA
AAA

2303/2825
FIGURE 2028

MGSTWGSFPGWVRLALCLTGLVLSLYALHVKAARARDRDYRALCDVGTAISSRVFSSRWGRGFGGLVEHVLGQDSI
LNQSNSIFGCIFYTLQLLGCLRTRWASVLMMLSSLVSLAGSVYLAWILFFVLYDFCIVCITTYAINVSLMWLSF
RKVQEPQGKAKRH

2304/2825
FIGURE 2029

TCCCTGCTCACGAGTTCAGGGCTCCTGGGCGGCCGCTTTTTCCAGTTCAGGTGTGCAGAAAGTGCCTCTCCCCA
CGCGCGGCGGGCTGCACTTGGTCGCTGGCTCCGAGATCGCGCGGGGCCGCCGGAAGCCCAAGACGGTACCGGGGG
CCGCAGCGCAGCCGGCGCCGCCCTCCGCCCTCCCCAACAGCAGGCCGAGTCCCGTAGCATCCGGTAGGGAAATGG
TCGTGCTTTTCGGTCCCCGCCGAAGTCACCGTGATCCTGTTAGATATCGAAGGTACCACAACCCCGATTGCTTTTCG
TGAAGGACATTTTATTTCTTACATCGAAGAAAAATGTTAAAGAGTATCTGCAGACACATTGGGAAGAAGAGGAGT
GCCAGCAGGATGTCAGTCTTTTGAGGAAAACAGGCTGAAGAGGACGCCACCTGGATGGGGCTGTTCCCTATCCCTG
CAGCATCTGGGAATGGAGTGGATGATCTGCAACAGATGATCCAGGCCGTGGTAGATAATGTGTGCTGGCAGATGT
CCCTGGATCGAAAGACCACTGCACTCAAACAGCTGCAGGGCCACATGTGGAGGGCGGCATTACAGCTGGGCGCA
TGAAAGCAGAGTTCTTTGCAGATGTAGTTCCAGCAGTCAGGAAGTGGAGAGAGGCCCGGAATGAAGGTGTACATCT
ATTCTCAGGGAGTGTGGAGGCACAGAACTGTTATTTCGGGCATTCTACGGAGGGAGATATTCTTGAGCTTGTTG
ATGGTCACTTTGATAACCAAGATTGGACACAAAGTAGAGAGTGAAAGTTACCGAAAGATTGCAGACAGCATTTGGGT
GCTCAACCAACAACATTTTGTCTGACAGATGTTACTCGAGAGGCCAGTGTGCTGAGGAAGCAGATGTGCACG
TAGCTGTGGTGGTGGAGACCAGGCAACGCAGGATTAACAGATGATGAGAAGACTTACTACAGCCTCATCACATCCT
TCAGTGAACATATACCTGCCTTCTCAACCTTAGAGAAGGGTTGTTAAGGCAGACCGCCCTGTTCCCCAGAGTTGTC
CCTGTAGTGTCTAGGTTTATTCTAATGGTAAAAGTAACTTACTTAAAAAACATATGTACACATATGTATGCAAGT
ATGTATATATGTGTATGCTCAGATTAACCTCCATAGGTACATAAGTGAAAGAGTCTCAGTTCAGTGAACACAAAA
CTTATTTAAAGATGCTTTATATGTAGAAATTGTTCAAATCATACTCTACCCTTAGTGAGGGCAAAGTGTAGTTG
GTAGAAGAAATTGCTAAATACCTATCTAATGTGCTATGTTTATCAAATCGTGTACTAAATGGAAAGCTAGTTTT
GAGAAATTATTCAGAAGCCTTGTTATTTTAAAAATGAAATATTTCAAAGACTGAATATTTCAAAGAAAATGAAT
AATTCATTGCCCTTGATTTAGAAAGATTATAACAGCTGTATTTCATATTTGCCTCCTTATATATATCAAAGACC
AAGGTATTTCTTCTGCTTCAAAGAACAATAATGGGAAAGAAAACCTCACTTGAGTCTTGATCAAACAAGTGTCT
TTTACTTAAGAAGAACTTGGAATCATTGTGGCACCCACAGCAAGCAGTTGCCTTACCAGTGAAAAAGGTGCAC
TGAGGTAACATCTAAACAGAGATGTGGTTCTTAATGTTTAAACAGAACAGTTCTAATCCTGCCACGTGTTATCAT
TATAGATTTTATAGTTGCCTTTCTAACTACTTAGCACAGTTTGAGAATACGTTAATTGCTATTTACTATTTAAAA
AGTTTTACTGAAATCAGTCCATAACATTAAGATGAGCCCTAATATGTAAGATTTTCTCTGGAATGGATGTGAGA
AATGTAAATTTTATAACAGCAGTATTTATCCTGGTTTAAATCTAATACGATGTCATGTTAATTTTCATGTTGTGAT
TAATAAAAGCATTTTTTCTTCAAAAAAAAAAAAAAAAAAAAAA

2305/2825
FIGURE 2030

MVVLSPAEVTVILLDIEGTTTPIAFVKDILFPYIEENVKEYLQTHWEEEECQQDVSLLRKQAEEDAHLDGAVPI
PAASGNGVDDLQQMIQAVVDNVCWQMSLDRKTTALKQLQGHMWRAAFTAGRMKAEFFADVVPVRKWREAGMKVY
IYSSGSVEAQKLLFGHSTEGDILELVDGHFDTKIGHKVESESyrkiADSIGCSTNNILFLTDVTREASAAEEADV
HVAVVVRPGNAGLTDDEKTYYSLITSFSELYLPSST

2306/2825
FIGURE 2031

TGACGCATACTATAGCGCTGTTTTCTGCACTGATAAACGAAAAGCAATCCACCAGGTCTCGGCAGCTAACTTTC
CGGCACTACTTATGCCCCGAGCGTGTCGTCCCAGTGCGCAAGTGCAGCAGGTGGCTACGGAGGGGCGCGGGAGGAA
GAGGAGGAGGAGGAGGAGGCTGGGTGGGGCCGGCGCAAGTGCTGTGATGCGGTTCCGGGCAGGGTTCTGTAGAAT
CTGAATACCAGTTTCCGAGCGGCAAGGCAGCGATGCGGCGATTTCAGTGTGTATGTGGTGAACAAAGCTGGCGGCT
TGATTTACCAGTTGGACAGCTACGCGCCACGGGCTGAGGCTGAGAAAACTTTCAGTTATCCGCTGGATCTGCTGC
TCAAGCTACACGATGAGCGTGTTGGTTGCTTTCGGCCAGCGGGACGGCATCCGAGTGGGTCTATGCAGTGCTGG
CCATCAATGGCATGGACGTGAATGGCAGGTACACGGCCGACGGGAAAGAGGTGCTGGAGTATCTGGGTAAACCCTG
CTAATTACCCGGTGTCCATTTCGATTTGGCCGGCCCCGCCTCACTTCTAATGAGAAGCTTATGCTGGCCTCCATGT
TCCACTCGCTCTTTGCCATCGGCTCCCAGCTGTCTCCTGAACAGGGAAGCTCAGGCATTGAGATGCTGGAGACAG
ACACATTCAAATTGCACTGCTACCAGACACTGACAGGGATCAAGTTTGTGGTTCTAGCAGATCCTAGGCAAGCTG
GAATAGATTCTCTTCCGAAAGATTTATGAGATTTACTCAGACTTTGCCCTCAAGAATCCATTCTATTCCTTAG
AAATGCCTATCAGGTGTGAGCTCTTTGACCAGAACCTGAAGCTAGCTCTGGAGGTGGCAGAGAAGGCTGGAACTT
TTGGACCTGGGTCATAGGCTGAACCTGTTATGGACCCCCAAATTCTGAGAGTTCCTGCAACAAGAATACTGCTGT
TGACACTCCAGTGGAATCCCAGCAGCCTTGTTAGTGCACCTGAAAGTGGGAGAATGCTGACCCTGATGACTTGT
ACTGATTCCTGAGCCTTAACACTGTGCTCTTTCCTTCTGTATATAACCATGGTCTTACTTTCCAACCTCTGTACAGA
TTTATTTATGGAGGAGCTAGGTCCATAAATGTTGTAATAAATATTCCTTTGATCTTGGTGTTGCGTAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

2307/2825
FIGURE 2032

MAIFSVYVVKAGGLIYQLDSYAPRAEAEKTFSYPLDLLLKLHDERVLVAFGQRDGIRVGHAVLAINGMDVNGRY
TADGKEVLEYLGNPANYPVSI RFGRPRLTSNEKLMLASMFHSLFAIGSQLSPEQGSSGIEMLETDTFKLHCYQTL
TGIKFVVLADPRQAGIDSLLRKIYEIYSDFALKNPFYSLEMPIRCELFQNLKLALEVAEKAGTFGPGS

2308/2825
FIGURE 2033

GGCCACGAGGGGAAATTGACGAACACGTGACGCGGTCTGGGCGGACCACTGCAGACTGAGCGGTGGACCGAATTGG
GACCGCTGGCTTATAAGCGATCATGTTTCTCCAGTATTACCTCAACGAGCAGGGAGATCGAGTCTATACGCTGAA
GAAATTTGACCCGATGGGACAACAGACCTGCTCAGCCCATCTGCTCGGTTCTCCCCAGATGACAAATACTCTCG
ACACCGAATCACCATCAAGAAACGCTTCAAGGTGCTCATGACCCAGCAACCGCGCCCTGTCCTCTGAGGGTCCCT
TAAACTGATGTCTTTTCTGCCACCTGTTACCCCTCGGAGACTCCGTAACCAAACCTCTTCGGACTGTGAGCCCTGA
TGCCTTTTTTGCCAGCCATACTCTTTGGCATCCAGTCTCTCGTGGCGATTGATTATGCTTGTGTGAGGCAATCATG
GTGGCATCACCCATAAAGGGAACACATTTGACTTTTTTTTCTCATATTTTAAATTACTACAAGATTATTAAAGAT
AAAATGATTTTGAAAAACAAAAAAAAAAAAA

2309/2825
FIGURE 2034

MFLQYYLNEQGDRVYTLKKFDPMGQQTCSAHPARFSPDDKYSRHRITIKKRFKVLMTQQPRPVL

2310/2825
FIGURE 2035

GAAGTCCTGGTAACTCTGGTCCTTGTTCCCGTCTGGATACCAGCTTCCTTCAGCAGCGCAGGCGGTTCGGTCCCTGA
GGCCCGTGGAAGGAGTCAAACCTTGCGGGAATTTTGCAGTTTATCTGCAGGGCTGTTGTTTCCAGCAAGACCCAAA
GCTAGAAAAGGAGGAGGAAGAACTGACCCGATCAGTGCCAGAAGTCATTGTATTCAAAGAAGAATAAGCAAGAA
AGAAAAGAAGGAAGGAAGAGAGGTAGACAGATACAAGATGAAAATCCTGTCAAAAAATGGAAGGAAAACCAGAAAA
TGAGAGTGAACCAAAGCATGAGGAAGAGCCAAAGCCTGAGGAAAAGCCAGAAGAGGAGGAGAAGCTAGAGGAGGA
GGCCAAAGCAAAAGGAACTTTTAGAGAAAGGCTGATTCAATCTCTCCAGGAGTTTAAAGAAGATATACACAACAG
GCATTTAAGCAATGAAGATATGTTTAGAGAAGTGGATGAAATAGATGAGATAAGGAGAGTCAGAAACAACTTAT
AGTGATGCGTTGGAAGGTAAATCGAAACCATCCTTACCCCTATTTAATGTAGTTTACCTTGATTTTTATCTGATA
TTAACAATACCATATAGCTTGCTTTTTATTAGCATTTCCTGATATTCCTTTGTCCATATTTCTACTTATAACCTG
TTGCTATTAATGGTTTTAGATGTATCTCTTGTTATCTGCATCTCATTGTTTATTGTATTTTGAACCAATCTACAA
GTCTCTGCTTTTAAATAAAAGAACTTTACACATTTGTAAAAAAGAGGTTCTTGGAAGATATAAAATGGAAAAAG
GCTAAGTAATATGTGAATATCATATTTTTGAAAGGTAAAAAGTACATTTGTATATTACATATATGGACATAACTT
GTGAAGGATGAAAGAAAGTCAGCCTCTCGGTGGTGGGATTATGAATGATTTTTCTCCTTTTGCTTGTTAGTATTT
TCTATATTCTAAAATTAACACACATTATTATAGCTAGAATATAAAAGTTTTATAAAAAAAAAA

2311/2825
FIGURE 2036

MKSCQKMEGKPENESSEPKHEEEPKPEEKPEEEKLEEEAKAKGTFRERLIQSLQEFKEDIHNRHLSNEDMFREVD
EIDEIRRVNRNKLIVMRWVNRNHPYPYLM

2312/2825
FIGURE 2037

GAATTCCGAGCTTTTTATTCTAAGAGGAGAAAAATCAGTAACGGGAGAAGCAGGAGGATGTCCAGAAGAAATTTT
ATCCCTTGCTCTCGCCCCTACTCTTTCTGGTGTTAGATCGAGCTACCCTCTAAAAGCAGTTTAGAGTGGTAAAA
AAAAAAAAACACACCAAACGCTCGCAGCCACAAAAGGGATGAAATTTCTTCTGGACATCCTCCTGCTTCTCCCGT
TACTGATCGTCTGCTCCCTAGAGTCCTTCGTGAAGCTTTTTATTCTAAGAGGAGAAAAATCAGTCACCGGCGAAA
TCGTGCTGATTACAGGAGCTGGGCATGGAATTGGGAGACTGACTGCCTATGAATTTGCTAAACTTAAAAGCAAGC
TGTTTCTCTGGGATATAAAATAAGCATGGACTGGAGGAAACAGCTGCCAAATGCAAGGGACTGGGTGCCAAGGTTT
ATACCTTTGTGGTAGACTGCAGCAACCGAGAAGATATTTACAGCTCTGCAAAGAAGGTGAAGGCAGAAATTGGAG
ATGTTAGTATTTTAGTAAATAATGCTGGTGTTAGTCTATACATCAGATTTGTTTGCTACACAAGATCCTCAGATTG
AAAAGACTTTTGAAGTTAATGTACTTGCACATTTCTGGACTACAAAGGCATTTCTTCCTGCAATGACGAAGAATA
ACCATGGCCATATTGTCACGTGGCTTCGGCAGCTGGACATGTCTCGGTCCCCTTCTTACTGGCTTACTGTTCAA
GCAAGTTTGCTGCTGTTGGATTTTATAAACTTTGACAGATGAACTGGCTGCCTTACAAATAACTGGAGTCAAAA
CAACATGTCTGTGTCCTAATTTTCGTAAACACTGGCTTCATCAAAAATCCAAGTACAAGTTTGGGACCCACTCTGG
AACCCGAGGAAGTGGTAAACAGGCTGATGCATGGGATTCTGACTGAGCAGAAGATGATTTTTATTCCATCTTCTA
TAGCTTTTTTAACAACATTGGAAAGGATCCTTCCTGAGCGTTTCTGGCAGTTTTAAAACGAAAAATCAGTGTTA
AGTTTGATGCAGTTATTGGATATAAAATGAAAGCGCAATAAGCACCTAGTTTTCTGAAAACCTGATTTACCAGGTT
TAGGTTGATGTCATCTAATAGTGCCAGAAATTTAATGTTTGAACCTTCTGTTTTTTCTAATTATCCCCATTTCTTC
AATATCATTTTTGAGGCTTTGGCAGTCTTCATTTACTACCACTTGTTCTTTAGCCAAAAGCTGATTACATATGAT
ATAAACAGAGAAATACCTTTAGAGGTGACTTTAAGGAAAATGAAGAAAAAGAACCAAAATGACTTTATTAAATA
ATTTCCAAGATTATTTGTGGCTCACCTGAAGGCTTTGCAAAATTTGTACCATAACCGTTTATTTAACATATATTT
TTATTTTTGATTGCACTTAAATTTTGTATAATTTGTGTTTCTTTTTCTGTTCTACATAAAATCAGAACTTCAAG
CTCTCTAAATAAAATGAAGGACTATATCTAGTGGTATTTTACAATGAATATCATGAACTCTCAATGGGTAGGTTT
CATCCTACCCATTGCCACTCTGTTTCTGAGAGATACCTCACATTCCAATGCCAAACATTTCTGCACAGGGAAGC
TAGAGGTGGATACACGTGTTGCAAGTATAAAAGCATCACTGGGGGATTTAAGGAGAATTGAGAGAATGTACCCAC
AAATGGCAGCAATAATAAATGGATCACACTTAACG

2313/2825
FIGURE 2038

MKFLLDILLLLPLLIIVCSLESFVKLFIPKRRKSVTGEIVLITGAGHGIGRLTAYEFAKLKSKLVLDINKHGLEE
TAAKCKGLGAKVHTFVVDCSNREDIYSSAKKVKAIEIGDVSILVNNAGVVYTSDLFATQDPQIEKTFEVNVLAHFW
TTKAFLPAMTKNNHGHIVTVASAAGHVSVPFLLAYCSSKFAAVGFHKTLTDELAALQITGVKTTCLCPNFVNTGF
IKNPSTSLGPTLEPEEVNRLMHGILTEQKMIFIPSSIAFLTTLERILPERFLAVLKRKISVKFDDAVIGYKMQ

2314/2825
FIGURE 2039

GGCACGAGGAAGGTTTTTGTGCGCCAACGCAGTGACCGAAGGCTCCGCTCACGCCCCGGCCTGATCCTGCCTGAA
G**ATG**GTGCCACTGGTGGCTGTGGTATCAGGGCCCCGTGCCCAGCTCTTTGCCTGCCTGCTCAGGCTGGGCACTCA
GCAGGTCGGCCCCCTTCAGCTGCACACCGGGGCCAGCCATGCGGCCAGGAACCATTATGAGGTGCTGGTGTCTGGG
TGGGGGCAGTGGCGGAATCACCATGGCTGCCCCGATGAAGAGGAAAGTGGGTGCAGAGAATGTGGCCATTGTTGA
GCCCAGTGAGAGACATTTCTACCAGCCAATCTGGACACTGGTGGGTGCTGGTGCCAAACAATTGTCCTCATCTGG
TCGTCCACGGCAAGTGTGATTCCATCTGGTGTAGAATGGATCAAAGCTAGAGTGACTGAGTTGAACCCAGACAA
GAACTGCATTACACAGATGACGACGAGAAGATCTCTACCGATATCTTATTATTGCTCTCGGAATCCAGCTGGA
CTATGAGAAGATTAAAGGCCTACCTGAAGTTTTCGCTCATCCCAAAATAGGGTCGAATTATTCAGTTAAGACTGT
AGAGAAGACATGGAAAGCTCTGCAGGACTTCAAAGAGGGCAATGCCATCTTCACCTTCCCAAAATACTCCAGTGAA
GTGTGCTGGAGCCCCCTCAGAAGATCATGTACTTATCAGAAGCCTACTTCAGGAAGACAGGGAAGCGATCCAAGGC
CAATATCATTTTCAACACTTCTCTTGGAGCCATTTTCGGGGTTAAGAAGTATGCAGATGCCCTGCAGGAGATCAT
CCAGGAGCGGAACCTCACTGTAACTACAAGAAAAACCTCATTGAAGTCCGAGCCGATAAACAAGAGGCTGTATT
TGAGAACCTGGACAAACCAGGAGAGACCCAAGTGATTTTCATATGAAATGCTTCATGTACACCTCCAATGAGCCC
ACCAGATGTCCTCAAGACCAGTCCTGTGGCTGATGCTGCTGGTTGGGTGGATGTGGATAAAGAAACTCTGCAACA
CAGGAGGTACCCAAATGTGTTTGGGATTGGGGACTGCACCAACCTTCCTACGTCAAAGACCGCTGCTGCAGTAGC
TGCCCAAGTCAGGAATACTTGATAGGACAATTTCTGTAATTATGAAGAATCAAACACCAACAAAGAAGTATGATGG
CTACACATCATGTCCACTGGTGACCGGCTACAACCGTGTGATTCTTGCTGAGTTTGACTACAAAGCAGAGCCGCT
AGAAACCTTCCCCTTTGATCAAAGCAAAGAGCGCCTTTCCATGTATCTCATGAAAGCTGACCTGATGCCTTTTCT
GTATTGGAATATGATGCTAAGGGGTTACTGGGGAGGACCAGCGTTTCTGCGCAAGTTGTTTCATCTAGGTATGAG
T**TAA**GGATGGCTCAGCACTTGCTCATCTTGGATGGCTTCTGGGCCAAAACCTGCAGTCACTGAATGACCAAGAGCA
GCACGAAGGACTTGGAACCTATCCTTGTAAGAGTTCCTTGATGGGTAATGGTGACCAAATGCCTCCCTTTTCAG
TACCTTTGAACAGCAACCATGTGGGCTACTCATGATGGGCTTGATTCTTTGGGAATAATAAAATGAAATAATACT
TTTATTTTCTGAATAAAAAGTTTGTCACTGAAAAAAAAA

2315/2825
FIGURE 2040

MVPLVAVVSGPRAQLFACLLRLGTQQVGPLQLHTGASHAARNHYEVLVLGGGSGGITMAARMKRKVGAENVAIVE
PSEHRYQPIWTLVGAGAKQLSSSGRPTASVIPSGVEWIKARVTELNPDKNCIHTDDDEKISYRYLIIALGIQLD
YEKIKGLPEGFAHPKIGSNYSVKTVKTKALQDFKEGNAIFTFPNTPVKCAGAPQKIMYLSEAYFRKTGKRSKA
NIIFNLSLGAIFGVKKYADALQEIIQERNLTVNYKKNLIEVRADKQEAVFENLDKPGETQVISYEMLHVTPPMSP
PDVLKTSPVADAAGWVDVDKETLQHRRYPNVFGIGDCTNLPTSKTAAAVAAQSGILDRTISVIMKNQTPTKKYDG
YTSCPLVTGYNRVILAEDFYKAEPLETFPFQSKERLSMYLMKADLMPFLYWNMMLRGYWGGPAFLRKLFHLGMS

2316/2825

FIGURE 2041

[illegible]

2317/2825
FIGURE 2042

MLESSGCKALKEGVLEKRS DGLLQLWKKKCCILTEEGLLLIPPKQLQHQQQQQQQQQQQQQQQPGQGPAEPSQPSG
PAVASLEPPVKLKEHF SNMKTVD CVERKGKMYFTVVM AEGKEIDFRCPQDQGWN AEITLQMVQYKNRQAILAV
KSTRQKQQHLVQQQPPSQPQPQLQPQPQPQPQPQPQPQSQPQPQPQPKPQPQQLHPYPHPHPHPHSHPHSHPH
PHPHPHPHQIPHPHPQPHSQPHGHRLLRSTNSA

2318/2825
FIGURE 2043

CCCGTATCCGCATCCACATCCACATCCACACTCTCATCCTCACTCGCACCCACACCCTCACCCGCACCCGCATCC
GCACCAAAATACCGCACCCACACCCACAGCCGCACTCGCAGCCGCACGGGCACCGGCTTCTCCGCAGCACCTCCAA
CTCTGCCTGAAAGGGGCAGCTCCCGGGCAAGACAAGGTTTTTGAGGACTTGAGGAAGTGGGACGAGCACATTTCTA
TTGTCTTCACTTGGATCAAAAGCAAAACAGTCTCTCCGCCCCGCACCAGATCAAGTAGTTTGGACATCACCCCTAC
TGAACAACCTTGGCGATTCTTCTTAGTTTTTCTGCATACTTTTCATCACCGATGCAGGAAACGATTTTCGAGTCAAGA
AGACTTTTATTTATGAACCTTTGAAAGGATCGTCTTGTATGGTGAATTTTCTAGGAGCGATGATGTACTGTAATT
TTATTTTAATGTATTTTGATTTATGATTATTTATTAGTTTTTTTTTAAATGCTTGTTCTAAGACATTTCTGAATGT
AGACCATTTTCCAAAAGGAACTTTATTTTCAAAAACCTAATCCGTAGTAATTCCTAATCTTGGAGAATAAAAA
AGGGCGGTGGAGGGGAAAACATTAAAGAATTTATTCATTATTTCTCGAGTACTTTCAGAAAGTCTGACACTTTCAT
TGTTGTGCCAGCTGGTTGAAATTA AAACTCTGATATTACTTTTTTTGAGGATTTTTATTTTTGTTTTTGCTTAAA
CACTATAGTTTGTCTAGAAGTTTTAAAAAGCTAAAAGTTAAAAATGGTGTAATTATGAAAATCTAACACTCAAGAT
AGTTTCTAAAAGGAAATCAGTAGTTAAGGATACCTGATTTCAAAATATTTAAAGCATAACCTAACTGATGGTAGG
ATGATTGTATCTTGAATATGTGGTAGGGCCACATCTATTGTAGGAAAACCTTGCTTTTATCATCTGTGTGTAAAG
GGCTTAATAAGGAGAAGAGGCCTTTTGACTGATTTGTGAGTATAAATGCATTTGCTGTTTCATTTCAAAAATGTT
GTGGAGGAAAAGAGTACATTTAACTTGTATAAGAGAATATTTGTACTCCTGTCCAGGCTGCAGGACCTTTCTTCG
AGAGCTTTCACACTTGACTTGAACCACATTTTCTGATCCCTTTACTTTGTTTTAGAAGCACACTGAAAAATCTC
GTTGTTTAAAGTACAATTTGTAAATATTTCAAAGGTCTAGGAGTCATAACTTTTGTTTTCATACTGAAAATGATG
TTGATCAGAGAAACCACTGTTTTGCTTTTCATTGCTCTGTGAGAAATTGAGGATTCTGTTTTGCTGTTAGGTAA
GCTAACTCAGAAATTGAAAGGAAAGACTGGATAAACACCGGATTTTCAGTAAGAAAACAACCCCACTCTGTCTT
AGAAGCCACTTGTTGAGGAGTCTGTTGGGGGAAAAAAGAGGATATGCTTTTAAAGGTAGAACAAACCTTCTCTG
TGTTAAATCAAAAGGATGTTCAAAATCCACCAGGACAGATGCTACTTGGGTTTTAAATGGAGCCATAGATGATACA
AAGTCCTCTTGGGGCTGAAAATCACTTCTATTTGCATGGCTTTACTAACTGGTTTTCTGTTTTCCATTATCTTTT
TCACAGAAAGTCTTGGTCAGTATTTTTCCAGCATTTAAATGAAACGGTCAGTATTAGACCCTGCTAGGTTATG
TAGTCAAGAAATAAAAAATAGAATTACATGCTACAGATGCTTTTATTCTCCTTCCATCTAGAAAGGAGTTCCAAGG
TCAAATTACTTTTTAGTGCAATAGTTAAATGACATTTTGAGATCATAACTCATATCCAAAAAGTTGCAGGGAAAA
TTAAATAGCTTTCCCTATTAAGCTAATGGCAAACAAAACCTTAAGTGGACCCCCACTTCCAGTGGTTGTTTAGG
TTGCAGTTGTGAAAATATGCTGCCAACATTTAAAAACTTGTTTCATATGTATATATGTATACACATATATGAATA
TGTATGTATATACATATATGAGAACATGTGTGTACACATATATGAATATGTATATATGTGTATGTATGTATAT
ATGTATATGAAATGAGAGCCACATCTAAAGATTTCTTAAATCAAGTTTGGTTCAGCTTCCTTAGAACTGTGGCTG
TACTTTTTGAGGAGTACCTCATAGTACTATATTTTAAATGCATGCAAATCATAATAGCTCCAAATGAACCACAGT
TTTTTCCCAATGGAGGATTTTTTTTTTAATTCCTGTACTAAAAAATAATCCATACCAAATATTTTTACAAATT
AAGATTGATGTAGGTTTTAAAAAAGGCATTTGTATGTTGTTAGCTTACATATGGGGCTAGGTAATTTCAATTGCTT
AAAAAGATGCGCCTAGGCTCCCTCTTGGTGGCTGGATTTCTTTTTCTTCGCCCCTGGTGGCCATGGTTTTTAATA
GGGCCACCGGAATCATGTTTCTTTTTTTTTTTTTTTTTTGGAGATGGAGTCTCGCCCTGTGACCCAGGCTGGAG
TGCAGTGGCACGATCTCGGCTCACTGCAACCTCTGCCCTTGGGTTACGCCATTCTCCTGTGTGACCTCCTGA
GTAGCTGGGACTACAGGTGAATGCCACCACGCCCCGGCTGATTTTTGTATTTTTAGTAGAGATGGGGTTTACCAT
AGTGGTCAGGCTGTTCTCGAACTCCTGACCTCAGGTGATCCACCTGCCTTGGCCTCCCAAAGTGCTAGGATTACA
GGTGTGAGCCACCACACCCGGCCCCAGAGTAATGGTTTCTTGACTTTCTGTAGCCCTTGTTTCTTAGTCTGCTGT
GATATTTATGTTGACCTTTATCATTTTCTATTCTGAACCCCTCTTAGCATTTAATGTGAAATCTAAGAAATTAGA
AGTAGAATGGCTTTTATTGTTTTGACACCTTTGAAATTATTATTAATAATTTTTCCAGAGCAAAAAAGCAAAACAC
GCTCAATAAGACTAAACAAAACAAAATATAAATGTACATCATTTAATGTCCCAGTGGCTCTATTCTACCTGTAAG
AAAAATGATACAAAACCACCTAAGATATTTTGAAGCCTGACAAATCAGCTTCATGGAAAAAGGTAAAAAATGCATT
TTTCAACCGAAAGGGCAGATCCAATAGAAGACCCGCTCCTTAAATAAACATAAAATGTAAAAAGTTGGAAAAAA
AA

2319/2825
FIGURE 2044

GCAGATCGCTTGCAGCTTGCTAGCTGTGTGGGCTGGGAGGTCTGGTAGGGCTGAGCTTGCAAGAGGATCAACATG

CCTTTGGCTAGAGATTTACTACATCCGTCCTTGGAAGAGGAAAAGAAAAACATAAAAAAGAAACGCCTAGTACAA
AGTCCAAATTCTTACTTTATGGATGTAAAAATGTCCAGGTTGCTACAAGATCACCACGGTTTTTCAGCCATGCTCAG
ACAGTGGTTCTTTGTGTAGGTTGTTCAACAGTGTGTGCCAGCCTACAGGAGGAAAAGGCCAGACTCACAGAAGGG
TGTTCAATTTAGAAGAAAGCAACACTTAATGATTCAAACAGCTTCCTGAATTTTAATTTTGTGTTGTCTCACAGAAA
GCCTTATCATAAATTCATAATTCTAATTAATTTACCAAGATAATGTAATTACATTTGGTTTTGTAAGGTATACA
GCAGTAATCTCCTATTTTGGTGTTCAGTTTTTCAATAAAGTTTTGATTATGGGCAAAAAAAAAAAAAAAAAAAAAA

2320/2825
FIGURE 2045

MPLARDLLHPSLEEEKKKKKKRLVQSPNSYFMDVKCPGCYKITTTFSHAQTVVLCVGCSTVLCQPTGGKARLIE
GCSFRRKQH

2321/2825
FIGURE 2046

AGACAGCACCTCAGTCTCTGACTCCAGCCGCACACCTCCTGCCTCTACCAGCAGGGGTTGCCGCCAGACCAGAGC
CAGGGCCAGGTCCCTGCGTCCATCCCCCCCCGGTAGGATGGACGTGAGCCATCCTTCTAGGGGACTTTTTTCAGTG
TGCGACTCGTCTCTGTTAGGTGGTAGGAGCCAGTTTGIGTGGCCTGTGCCACGCTCCACAGTGCGTGGCTGGGCT
CTGTGTGTGGCCTGTGTCCCCTGTCCCTGCAGGACCCAGCAGGCATCGTGGCGTGACAGCTGTGTCCAAGCCACT
GCCCCGGGCATCCCATCACCCACCAGGGTGACAGTCTCTCCTGCTGGGGGCTTTCTGTGCGATGTGTGTCTCCTG
TCGACTCTGCAGTTTGTTCCTCAGAGCAGAATGTTTCCTGTTCTCAGTGCACAAAGACACTGGTTTTCAATCGGCG
TCTAAAACACGTTTCCTGCCTTTTCATTGCAACACGGTGTGTTCATTTGTTTAAAACAGTTTAATGAGTAAGTTTA
GATGACTGGTCAATATCTTAAAAATGTATATTAGTAAGAAGTTCTTCCTGGAATTTTTCTTTTCGATTCTGGCAGA
ATAAACAGGTGTTTTTAGTTTTCCCCTGTCTGAGCCAAGCAGGACCCTGTCCCAGAGCAAGAGATGTCCCCCTTC
CATCTCTGACCCCTTGCCCTGGGACAAGCTTTGATGGGGGGCCCCAGCTTCAAGGCTGTGGTGGGAACAGCACCCCC
AAATGCCAGCCTCTCCTTTCTTCCCATCCACCAGTATACTGCGGGGGCCATTTCTGGTCTTTGTGCAACAGGAAAC
CCATTTCTGGTGGGATATGCCTTCCAGTGCCACAGGGCCACTCACCCCATGCATCTCTGTCTGCCCCGTCAGTGC
TGGGACGGACAGCAAGGGCAAGCCCAGTGTCTGGCGGATAGGTGGGTGGGAACAGAGAGGGGAGAATGCCGTCCT
AAGCTTCTGCTTGGGGATCCCCACACGACCTGGGTACTGCCTGGGAAACCTGTCTAAGTAAACTATGGACCT
CGCCTCGCCACCGGCCTGCGAAGCCAGCATCTCCGTGAAGGTGGATGGAAGCGCCTTTGTCTCATTTTGAGCT
GCAAGCTGGGTGAGCGGCTCTGAAGCCCTCGAGTGACTTTCTAACCAGACCCAGCCCCCTGGCAGGAGGAGGGT
GGGTGCAGGGCTGGTGGGACAAAAGAGGCCTCAGCAGGCCTGGAAGACCCTTCCAGTACATCCCACAGCGTGTG
GAGCAGCTGGGAGAACCTGTGTCAAGCTCGAGCCGTATAGATCCCCATGAGGTGTCTGAAGCCCCCTTCTTGGTG
ATGGGAGGCAGAGGTGCTGACGTTCTGGAGCATGGACGTGAGTCCTCAGCTGGCTCCGCGTGGGCCCTTGGAGGG
TGCCAGGTGTGTGGTGACCTTCTGGATGCCTTTAACTTCATGGCTGCGTCATTCTGATTTAGAACTTTAAACGG
AGCTTCATCTAGTGATTGCAAACTGGACCAATGGGAGGACGGCGGCGAGCCCCGTCCCTCCGTGGAATGGAGC
TCAGCTCTTCGGAGGCATCAAAGCACCTGTGCGCTCCGTGGTCCCCCTGCCGAGGGAGTGCGGCCTCTGCAAGGT
TCGGGGGTGGCTTCGTTTGCCTGGAGTGGCCGGCCCTGCTTGTGCCATGTGGATGTTTGTGAGCCTCGGTCTTAC
AGCACTGTGTAGGCTGCATCTGTTTCGTGCTGGTCCTGTTGACTTGTATGATATCCACAAATAAATATTTTCATG
GCAAAAAAAAAAAAAAAAAA

2322/2825
FIGURE 2047

MSPSISDPCLGQALMGGPSFKAVVGTAPPNASLSFLPIHQYTAGPFLVFVQQETHFWWDMPS SATGPLTPCISVL
PVSAGTDSKGKPSVWRIGGWEQRGENAVLSFCLGIPHTTWVLPGKPVLSKTMDLASPTGLRSQHLREGGWKRLCP
HFELQAGSAALKPSSDFLTQDPAPGRRRVGAGLVGQKEASAGLEDPSSTSHSVSSSWENLCQARAVIDPHEVSEA
PSW

2323/2825
FIGURE 2048

CCCGAGACCACGTGGCCTCCGAGCAGCTCAGGGCGCCCTTGAAAGTTCTTGGATCTGCGGGTTATGGCCGGTCCC
TTGCAGGGCGGTGGGGCCCGGGCCCTGGACCTACTCCGGGGCCTGCCGCGTGTGAGCCTGGCCAACTTAAAGCCG
AATCCCGGCTCCAAGAAACCGGAGAGAAGACCAAGAGGTCGGAGAAGAGGTAGAAAATGTGGCAGAGGCCATAAA
GGAGAAAGGCAAAGAGGAACCCGGCCCCGCTTGGGGCTTTGAGGGAGGCCAGACTCCATTTTACATCCGAATCCCA
AAATACGGGTTTAACGAAGGACATAGTTTCAGACGCCAGTATAAGCCTTTGAGTCTCAATAGACTGCAGTATCTT
ATTGATTTGGGTTCGTGTTGATCCTAGTCAACCTATTGACTTAACCCAGCTTGTCAATGGGAGAGGTGTGACCATC
CAGCCACTTAAAAGGGATTATGGTGTCCAGCTGGTTGAGGAGGGTGCTGACACCTTTACGGCAAAAAGTTAATATT
GAAGTACAGTTGGCTTCAGAACTAGCTATTGCTGCCATTGAAAAAATGGTGGTGTGTTACTACAGCCTTCTAT
GATCCAAGAAGTCTGGACATTGTATGCAAACCTGTTCCATTCTTTCTTCGTGGACAACCCATTCCAAAAAGAATG
CTTCCACCAGAAGAACTGGTACCATATTACACTGATGCAAAGAACCGTGGGTACCTGGCGGATCCTGCCAAATTT
CCTGAAGCACGACTTGAACCTGCCAGGAAGTATGGTTATATCTTACCTGATATCACTAAAGATGAACCTTTCAA
ATGCTCTGTACTAGGAAGGATCCAAGGCAGATTTTCTTTGGTCTTGCTCCAGGATGGGTGGTGAATATGGCCGAT
AAGAAAATCCTAAAACCTACAGATGAAAATCTCCTTAAGTATTATACCTCATGAATTCCCGTCCAAGGAAGCAGA
GTTGTTAAAGAGTACTGGAATAGGGGCTGAAGGATCTATATTCCTTATTGCATTTTCCTTATGTATAATTTCC
AGATGGTGATGTTACTTTTCAGTGTACTCATATGTCTCATTTTCATCTAAAATTAAATGGCAGGAACAAGGACT
GCATAGAGAAAAAAAAAAAAAAAAAAAAA

2324/2825
FIGURE 2049

MAGFLQGGGARALDLLRGLPRVSLANLKPNGSKKPERRPRGRRRGRKCGRGHKGERQRGTRPRLGFEGGQTPFY
IRIPKYGFNEGHSFRRQYKPLSLNRLQYLIDLGRVDPSQPIDLTQLVNGRGVTIQPLKRDYGVQLVEEGADTFTA
KVNIEVQLASELAIAAIEKNGGVVTTAFYDPRSLDIVCKPVPFFLRGQPIPKRMLPPEELVPYYTDAKNRGYLAD
PAKFPEARLELARKYGYILPDITKDELFKMLCTRKDPRQIFFGLAPGWVVMADKKILKPTDENLLKYYTS

2325/2825
FIGURE 2050

GCGGATCATCCGCTTCCGGAGTCGAGGTTTTCGGGCTTGTACCGCTTGGCGGTGCGGCCTGGTGTGCGGCTTGCAG
GTTCTTTCTGTGTTTGTCTCTGCCCTGCCAAGGCCGTAGAGCTGGTGCGTGCGGGTAGCGGGGCTCTCCGAGGA
GCGCGGCACGCCGCGCACCATGGTCCACCTCACTACTCTCCTCTGCAAGGCCTACCGTGGGGGCCACTTAACCAT
CCGCCTTGCCCTGGGTGGCTGCACCAATCGGCCGTTCTACCGCATTGTGGCTGCTCACAAACAAGTGTCACAGGGA
TGGCCGTTTCGTAGAGCAGCTGGGCTCCTATGATCCATTGCCCAACAGTCATGGAGAAAACTCGTTGCCCTCAA
CCTAGACAGGATCCGTCATTGGATTGGCTGCGGGGCCACCTCTCTAAGCCTATGGAAAAGCTTCTGGGTCTTGC
TGGCTTTTTCCCTCTGCATCCTATGATGATCACAAATGCTGAGAGACTGCGAAGGAAACGGGCACGTGAAGTCCT
GTTAGCTTCTCAGAAAACAGATGCAGAAGCTACAGATACAGAGGCTACAGAAACATAAATGAGCTGACTTTAGTG
AGCATAGCAGTGGGAACAAGGTCAAGGTCCTTTTGAAACACTGCAGCGATCTTAATTTGTTAGATTGGAGTTC
AATAAATGGAGTATCCTGAAAAAAAAA

2326/2825
FIGURE 2051

MVHLTTLLCKAYRGGHLTIRLALGGCTNRPFYRIVAAHNKCPRDGRFVEQLGSYDPLPNSHGEKLVALNLDRIH
WIGCGAHLSPMEKLLGLAGFFPLHPMMITNAERLRRKRAREVLLASQKTDAEATDTEATET

2327/2825
FIGURE 2052

GTCGGCTGGAAATTATGTCCTCCGTCGGTTTTCCGCAGTTTTTCCACCAAGCGAGATATTTTTGGGAGTTATTCC
CTAAATAACTGCATTATATGCTCCTTTTCATGACGAAATTGCTGCCGTGGAGAAGACTGGAGGAAACTCGAGGAAG
AGGGAGAAGCCGACAAGTGCTCGACGGGCTAGGAACTGTCCTGCTTGGGTGTTAGCGTTTCCCGCCGGGCCAGTA
AGGCTGAGTGACCCGGCGTGGCTACTAGGAGAAGGACGTACGGTCCTGCTAGTAGAGGAATATGTCGAGTTTCTC
TAGGGCGCCCCAGCAATGGGCCACTTTTGCTAGAATATGGTATCTCTTAGATGGGAAAATGCAGCCACCTGGCAA
ACTTGCTGCTATGGCATCTATAAGACTTCAGGGATTACATAAACCTGTGTACCATGCACTGAGTGACTGTGGGGA
TCATGTTGTTATAATGAACACAAGACACATTGCATTTTCTGGAAACAAATGGGAACAAAAAGTATACTCTTCGCA
TACTGGCTACCCAGGTGGATTTAGACAAGTAACAGCTGCTCAGCTTCACCTGAGGGATCCAGTGGCAATTGTAAA
ACTAGCTATTTATGGCATGCTGCCAAAAACCTTCACAGAAGAACAATGATGGAAAGGTTGCATCTTTTTCCAGA
TGAGTATATTCCAGAAGATATTCTTAAGAATTTAGTAGAGGAGCTTCCTCAACCACGAAAAATACCTAAACGTCT
AGATGAGTACACACAAGAAGAAATAGACGCCTTCCCAAGATTGTGGACTCCACCTGAAGATTATCGGCTATAAGA
GAATAAGAATTGCAGAAAATAACAGTGAAGTGATTGAACTTTCTTCTGATGAGTTTCTCTAACCTACAGGATGG
AGTAAACAACCTGCTACAGTTCAGCACCTGTTTTATGTGCCGAATCACTGTGGGGAAAGGTCAGGAAGGTATAGT
CCTTCAATAGGAAATTGTAATTAAAATATAATTTTATAGAACCATTTTTATGTAATCTGATTGAATGTTATAGT
TGATAATAATAAAATCACTTACTTGTTGACTAAAA

2328/2825
FIGURE 2053

MSSF SRAPQQWATFARIWYLLDGKMQPPGKLAAMASIRLQGLHKPVYHALSDCGDHVVIMNTRHIAFSGNKWEQK
VYSSHTGYPGGFRQVTAAQLHLRDPVAIVKLAIYGMLPKNLHRRMTMMERLHLFPDEYIPEDILKNLVEELPQPRK
IPKRLDEYTQEEIDAFPRWLWTPPEDYRL

2329/2825
FIGURE 2054

CTCGTTTTCCCCTCCTGAGCGGGTGGAGGAGGCCCAAGCGTGCTGGGCGCGCTCCCCCTTCCTTTCCCTCCGGCG
TCCTCTCCCGGCCCTCTCGCGCTGCACTGTCTCTCCGACGCAAGACTGTCCCGGCCCGGATATGGCTCGTGGACA
GCAGAAAATTCAGTCTCAGCAGAAAAATGCCAAAAAGCAAGCTGGACAAAAGAAGAAACAAGGACATGACCAAAA
GGCTGCTGCCAAAGCTGCCTTAATATATACCTGCACTGTCTGTAGGACACAAATGCCAGACCCTAAGACCTTCAA
GCAGCACTTTGAGAGCAAGCATCCTAAGACTCCACTTCCTCCAGAATTAGCTGATGTTTCAGGCATTAAGGTTGTTT
ACAGGTGAATTCATGACACCTTTGACTCTTCTACTGTCTCAGACCTTAGGTAACATACCTGCGCTGCTTTTCTAA
CAAACCTGTTGATCAGCAAAAATAAAGGGGCTACAGAAACACTCATTTTTATGCTGTTCCCTCTTGCGGCTTCATGC
AAAGACAATTCTGTGTAATGTACAGTTGACTCTGATTTGGAAATATGAAAATCAGTCCATCCTTGTATAAAAA
ATTTTTTTACAATTGTAATTATATTGATGTTTATATTGTGTAAAATAACTCATTTAATAAAATAGTACTTTGATT
TACGACATCACAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

2330/2825
FIGURE 2055

MARGQQKIQSQQKNAKKQAGQKKKGHDQKAAAKAALIYTCTVCRTQMPDPKTFKQHFESKHFKTPLPPELADVQ
A

2331/2825
FIGURE 2056

ATTGTGGGAAGGGCGGCCGGTGCAGCCGAGCTGCCATCTTAGGGGCGCCTGGCGCTACGGGTTTCTCGTTGGAG
GCGGCCCTTCGTGGCAGCTGTAGACGCCGGGAAAAGGCATAAAGTCCGTTGGCCGACACCTTTCTTTCCCTCCGGCC
TCGGTAGAACCGCCAGCCCGCGTCCGAAGGCGGAGGCGAGGGGAACTGGCCGCGTGAGGGGCCTGAGGCGAGCGG
TTAGAGCGTCTCCCGGAAGGATGGGCCCGGTCTCGGAGCCGGAGCTCGTCCCGCTCCAAGCACACCAAGAGCAGCA
AGCACAAACAAGAAGCGCAGCCGGTCCCGGTTCGCGATCCCGGGACAAGGAGCGCGTGCGGAAGCGTTCCAAATCTC
GGGAAAAGTAAACGGAACCGGCGGGCGGGAGTCGCGGTCCCGTTCGCGCTCCACCAACACGGCCGTGTCCCGGCGCG
AGCGGGACCGGGAGCGCGCCTCGTCCCCGCCCGACCGCATCGACATCTTCGGGCGCACGGTGAGCAAGCGCAGCA
GCCTGGACGAGAAGCAGAAGCGAGAGGAGGAGGAGAAGAAAGCGGAGTTTCGAGCGGCAGCGAAAAATTCGACAGC
AAGAAATAGAAGAAAACTCATCGAGGAAGAAACAGCACGAAGAGTAGAAGAATTGGTAGCAAAAAGGGTGGAGG
AAGAACTGGAGAAAAGGAAGGATGAAATTGAACGAGAAGTTCTCCGAAGGGTGGAGGAAGCCAAACGCATCATGG
AAAAGCAGTTGCTCGAAGAACTCGAGCGACAGAGACAAGCTGAGCTTGCCGCACAAAAGCTAGAGAGGAGGAAG
AACGTGCAAAACGTGAGGAGCTAGAGCGAATACTGGAAGAGAATAACCGAAAAATTGCAGAAGCACAAAGCCAAAC
TGGCCGAAGAACAGTTGAGAATTGTTGAAGAACAAAGAAAGATTTCATGAGGAAAGGATGAACTAGAACAAAGAAC
GACAACGTCAACAGAAAGAAGAACAAAAAATTATCCTGGGCAAGGGGAAGTCCAGGCCAAAACGTCTCTTCAT
TAAAAACCCAGGATTAAATTGCAAACTCTGAACTTTTTACAAAGAAAAATGGAAAACTTTGTATGGTAGCTTCA
TGTTGAAGTGGTTTTTTTGTGTTTTGTTTTGTTTTTAAATTTGTAAATCTGGAAAGTTAGCTTGTCTAATAGG
GGCTATGCTCTGCAATTCCTTTTTTTTTTTTTTTTCCCTTCCACTAAGTCAAATCCTTATCAGATCATTTGTTGTA
TTCTAAGGAGTGACGTATTTTTACCTGTTTGGATTCTATATTAGTGGTCTGAGGAAGAGCAGATCACATTGTAA
AACTATGGATGGTCTGATAAGGCTTTTACTGACCCCACTGACTTCAGAGTTATACTCTGCTTGCTACATCATAAT
GCTGGTTTTGCTGACTTTTTGTTTTTTTATATATTTATAAAAAAGAAAAAGTTGGTGATTGCATTGGGAAATTC
CCAGGGTATTACTGGACCTATGTGGTGATTGTTAAACCAGTGTCCTTGTGATACTGTGCTCTTGATGTTCCCTG
ATACAGGTAAGGAAACAGTTGGTCAACTCTGATACAAAGTATATATACAGTTCAGTATTGTCTCTGTTTCATTTTG
TTTTTATTTCAATTGACAAAATCAAACCAGCATTCCCATTGTGTAAATAAATGATTTTGCTGAATAAAGTAAAGT
CTTAAATTC

2332/2825
FIGURE 2057

MGRSRSRSSSRKHTKSSKHNNKRSRSRSRSDKERVKRKSKSRESKRNRRRESRSRSRSTNTAVSRERDRERA
SSPPDRIDIFGRITVSKRSSLDEKQKREEEKKAEFERQRKIRQQEIEEKLIEETARRVEELVAKRVEEELEKRR
DEIEREVLRRVEEAKRIMEKQLLEELERQRQAELAAQKAREEEERAKREELERILEENNRKIAEAQAKLAEEQLR
IVEEQRKIHEERMKLEQERQRQQKEEQKIILGKGKSRPKLSFSLKTQD

2333/2825
FIGURE 2058

GGCACGAGGCAGAGGGCGGTTCTGGAGTTACAGCCGCGTTTGC GGGACGTGTCTGCGCGGCAGTCCTGGCCTGT
TGAGCTTGTCCAGACGAAGCCTCGCAGGGATGGGTTGGAGCCTGGGCGGGGCTTCGCTCAGGCAGCGTTTGAGGC
AGACCCAGCAGGGTCTCTCTGGGGCCTTCTGCTTTGAACTGCGGTGGCGGGCGGGCGCACGGTCTCCTGTACG
CCCTAGACTAGGGGCCGCCATCTCCATGGCCACGGCCGTGAGCCGGCCCTGCGCCGGCAGGTGCGGGGACATACT
GTGGCGCGTTTTGGGCTGGAGGATAGTTGCAAGTATTGTTTGGTCAGTGCTATTTCTACCCATCTGCACCACAGT
ATTTATAATTTTCAGCAGGATTGATTTGTTTCATCCTATACAGTGGCTGTCTGATTCTTTTCAGTGACCTGTATAG
TTCCTATGTAATCTTTTACTTCTGCTGCTGTGTCAGTGGTAATAATAATAAAGTATTTTCAATGTGGAGTTCTA
TGCAGTTGTGCCTTCTATTCTTCTGCTCCAGACTAGCTCTGATAGGGAAGATCATTTCATCCTCAGCAACTCATGCA
CTCATTATTCATGCTGCAATGGGAATGGTGATGGCCTGGTGTGCTGCAGTGATAACCCAGGGCCAGTACAGCTT
TCTTGTGGTTCCCTGCACTGGTACTAACAGCTTTGATAGCCCTGCTGCGCAAACCTGCTTAAATGAATATCATCT
TTTTTCTCTACTGACTGGAGCATTATGGGCTATAGCTATAGCCTCCTGTATTTTGTAAACAACATGAACTATCT
TCCATTTCCCATCATACAGCAATAACAAGTTCTTGCCTTTTAGGAGATCTCTGCTCTTATTAGTTAAACACAGTTG
TGTGGAATCACTGTTCTGGTTAGAAATTTCTGCATTTTATATTATTTCTTGGCTATATTCCCAAAGCTTGGAT
TAGCACTGCTATGAACCTTACATAGATGAGCAGGTTTCATAGGCCACTTGACACAGTGAGTGGCCTCTTAAATCT
CTCGTTACTCTACCATGTCTGGCTGTGTGGTGTCTTTCTCCTGACGACTTGGTATGTCTCATGGATACTCTTCAA
AATCTATGCCACAGAGGCTCATGTGTTTCTGTTCAACCACCATTTCGAGAAGGGTCAGATGAGTGCCTTCCAAA
AGTGTTAAATAGCAATCCTCCCCCATCATAAAGTATTTAGCCTTGACAGCCTGATGTTGCTTTCTCAATATTC
TCCTTCACGAAGACAAGAAGTTTTAGCCTCAGCCAACCAGGTGGACATCCCCACAATTGGACAGCCATTTCAG
GGAGTGTTGAATCTTTTAAATGGTATGACTCAGAACTGATTCTCTATCAAGAAGCTGCTGCTACGAATGGGAG
AGTGCTTCATCTTACCCAGTGGAACCTAAGAAATTAAATTCTCCAGAAGAACTGCTTTTCAGACACCAAAATC
TAGCCAGATGCCTCGGCCTTCAGTGCCACCATTAGTTAAAACATCACTGTTTTCTTCAAAATTATCTACACCTGA
TGTGTGAGCCCATTTGGGACCCCATTTGGCTCTAGTGTAATGAATCGGATGGCTGGAATTTTTGATGTAAACAC
CTGCTATGGGTCACCGCAAAGTCTCAGCTAATAAGAAGGGGGCCAAGATTGTGGACATCAGCTTCTGATCAGCA
AATGACTGAATTTTCTAATCCTTCTCCATCTACCTCTATTAGTGCTGAGGGTAAGACAATGAGACAACCCAGTGT
GATTTATTTCATGGATTGAGAATAAACGTGAACAGATTAAGAATTTCTTGTCAAAACGGGTGCTGATAATGTATTT
TTTCAGTAAGCACCCAGAGGCCTCCATTAGGCTGTTTTTTTCAGATGCCCAAATGCATATTTGGGCATTAGAAGG
TCTGTCGCACCTTAGTAGCAGCATCATTTACAGAGGATAGATTTGGAGTTGTCCAGACGACACTACCAGCTATCCT
TAATACTTTGTTGACACTGCAAGAGGCAGTCGACAAGTACTTTAAGCTTCCTCATGCTTCCAGTAAACCACCCG
GATTTTCAGGAAGCCTTGTGGACACTTCATATAAAACATTAAGATTTGCATTTCAGAGCATCACTGAAAACCTGCCAT
CTATCGAATAACTACTACATTTGGTGAACATCTGAATGCTGTGCAAGCATCTGCAGAACATCAGAAAAGACTTCA
ACAGTTCTTGGAGTTCAAAGAATAGTTAAGTAATATAAACTGTGTTTCATTACACTGCTGATACAACCTACAGATGG
GACAGTAAATGTTTCAGCATTCTTGGATCAGAAGAAAACGGACTAATTAGATGCTTCCTTTGTCGTGGTGGTTGCT
TTGAAAACATACTTTAATGGGAGAAATCATGGAAGAAATTCACAGAATAACTGAAAACCTGCCTTTTCTGT
ACCGATTGCTTTTTGTGTGTGTGGTATAATAAAATCTTTATTCAATTTTACAGAAAAAAAAAAAAAAAAAAAAA

2334/2825
FIGURE 2059

MATAVSRPCAGRSRDILWRVLGWRIVASIVWSVLFLPICTTVFIIFSRLDLFHPIQWLSDFSFLYSSYVIFYFL
LLSVVIIIIISIFNVEFYAVVPSIPCSRLALIGKIIHPQQLMHSFIHAAMGMVMAWCAAVITQGQYSFLVVPCTGT
NSFDSPAAQTCLNEYHLFFLLTGAFMGYSYSLLYFVNNMNYLPFPPIIQQYKFLRFRRSLLLLLVKHSCVESLFLVR
NFCILYYFLGYIPKAWISTAMNLHIDEQVHRPLDTVSGLLNLSLLYHVWLCGVFLTTWYVSWILFKIYATEAHV
FPVQPPFAEGSDECLPKVLNSNPPPIIKYLALQDLMLLSQYSPSRRQEVFSLSQPGGHPHNWTAISRECLNLLNG
MTQKLILYQEAAATNGRVSSSYPEPKKLNSPEETAFTQTPKSSQMPRPSVPPLVKTSLSFSSKLSTPDVVSPFGTP
FGSSVMNRMAGIFDVNTCYGSPQSPQLIRRGPRLWTSASDQQMTEFSNPSPTSSISAEGKTMRQPSVIYSWIQNK
REQIKNFLSKRVLIMYFFSKHPEASIQAVFSDAQMHIALEGLSHLVAASFTEDRFGVVQTTLPAILNTLLTLQE
AVDKYFKLPHASSKPPRISGSLVDTSYKTLRFAFRASLKTAIYRITTTTGEHLNAVQASAEHQKRLQQFLEFKE

2335/2825
FIGURE 2060A

CGCCGTGGGGCCGAGGTGTCGCTTCCTGACGGGGCGGCGCGGACGGACGCGGGCCGGTGCCGGCCGGGACGCCGGG
CCCGCAGCCTAGCTCGCCATCTCGCTCACGCCGCCGCCGCCGCGGGGCCGTACGCCCCGCCGGGCGGGGCCATG

CAGGAGAGCCAGACCAAGAGCATGTTTCGTGTCCCGGGCCCTGGAGAAGATCCTAGCCGACAAGGAGGTGAAGCGG
CCCCAGCACTCCCAGCTGCGCAGGGCCCTGCCAGGTGGCGCTCGATGAAATTAAAGCAGAAATAGAAAAGCAGAGG
CTTGGAAGTGTGACACCACCAAGGCAAACTTCATTGAAGCTGACAAGTATTTTCTTCCATTTCGAGCTAGCTTGC
CAGTCCAAGTCCCCAAGGGTAGTCAGCACATCCCTTGACTGCTTGCAGAACTCATCGCATACGGGCACATCACT
GGCAACGCCCCCTGACAGTGGAGCCCCCTGGGAAGCGGCTGATCGACAGAATTGTTGAAACCATTTCAGTTGTTTT
CAGGGCCCTCAGACTGATGAAGGGGTTAGTTACAAATAATTAAGGCTCTTCTGACTGCAGTGAATTCACACAC
ATTGAAATTCATGAGGGTACTATCCTGCAGACAGTGAGAACATGTTACAATATCTATTTGGCCAGCAAAAATCTC
ATCAATCAAACCACTGCCAAGGCTACCCCTTACTCAGATGCTGAACGTCATTTTACCCCGCATGGAAAACCAAGTG
TTGCAGGAGGCCAGAGAACTGGAAAAACCAATCCAGTCAAAACCCCGTCCCTGTGATCCAAGCTGCAGCAGTA
TCCCCAAAGTTCGTTTCGTTTGAAGCACAGTCAGGCACAAAGCAAACCAACTCCCGAAAAACAGATTTAACC
AACGGTGAACATGCCAGGAGTGATTCTGGAAGAGTAAGCACAGAAATGGAGACGCACCCAGAGAAAGAGGCTCA
TCACTGTGAGGACTGATGACGGAGCCAGGAGGTGGTGAAGGACATCTTGAAGATGTAGTCACATCTGCCATT
AAAGAAGCAGCGGAAAAGCATGGTCTGACAGAACCTGAGAGAGTTCTAGGTGAACTGGAGTGCCAGGAATGTGCT
ATTCCTCCAGGAGTTGATGAAACTCACAGACCAACGGGATAGCCGATGACAGGCAGTCCTTGTGCTCAGCAGAT
AATCTGGAATCGGATGCACAAGGACATCAAGTGGCTGCCAGGTTCTCCACGTTCTGCAGAAGGATGCCTTCCTT
GTGTTCCGCTCCCTGTGCAAGCTGTCCATGAAACCCCTTGGTGAAGGCCCTCCAGACCCAAAATCCCATGAGCTG
CGTTCCAAGGTGGTTTCCCTGCAGCTGCTCCTCTCTGTGTTGCAAAATGCTGGCCCCGTATTTCAGGACTCACGAG
ATGTTTCATCAATGCAATCAAGCAATATCTCTGTGTGGCCTTGTCCAAAACGGCGTCTCTTCAGTGCCTGATGTC
TTTGAGCTCTCTCTTGCCATTTTTCTTACTCTTCTTTCAAACCTTTAAAATGCACTTGAAAATGCAGATAGAGGTC
TTTTTCAAAGAGATTTTTCTGAACATTTTAGAAACATCAACAAGTTCTTTTGAGCACAGGTGGATGGTCATTCAG
ACTCTGACGAGGATCTGTGCAGATGCCAGTGTGTTGTGGATATTTATGTCAACTACGACTGTGATTTAAATGCT
GCTAACATTTTTTGAGCGCCTTGTAATGATTTATCCAAAATGCTCAGGGAAGAAGTGGACATGAGCTGGGAATG
ACACCTCTGCAGGAGCTCAGCCTGAGGAAGAAAGGCCTGGAGTGCCTCGTGTCCATTCTCAAGTGCATGGTGGAG
TGGAGCAAAGACCTGTATGTGAATCCCAACCACCAGACCAGCCTCGGTGAGGAGAGGCTCACGGATCAGGAAATA
GGGGATGGGAAAAGCCTTGACATGGCAAGACGGTGTAGTGTGACGTCCATGGAGTCCACAGTGTCTCGGGACC
CAGACAACTGTTTCAGGATGACCCTGAGCAATTTGAGGTTCATCAAGCAAAAAAAAAAAATCATTGAACACGGCATC
GAGCTGTTCAACAAGAAACCCAAGAGGGGGATCCAGTTTCTCCAGGAGCAGGGCATGCTGGGAACGTCAGTTGAA
GACATAGCCCAATTCTGACACCAGGAGGAGCGCCTGGATTCCACCCAAGTAGGCGATTTTCTGGGAGATAGCGCA
AGGTTCAACAAGGAGGTGATGTATGCCTACGTGGACCAACTGACTTCTGTGAAAAGAATTTGTCTCAGCCCTG
CGGACATTCTAGAAAGTTTCCGCCCTACCTGGAGAAGCCCAAGATTGACCGATTAATGGAGAAGTTTGCCGCA
AGATACATAGAATGCAACCAAGGGCAAACCTCTGTTTGCTAGTGTGACACTGCTTATGTCTAGCGTATTCAATT
ATTATGCTGACTACAGACTTGACAGTCTCAGGTAAAAATAAAATGACGAAAGAGCAGTATATTAATAATGAAT
CGGGGTATCAATGATAGTAAAGATCTGCCAGAAGAGTATCTCTCAAGCATCTATGAAGAGATAGAAGGCAAGAAA
ATTGCAATGAAAGAAACAAAAGAGCTAACGATTGCAACCAAAATCTACTAAGCAGAATGTAGCTAGTGAAGAGCAG
CGGCGGCTGCTGTACAACCTAGAGATGGAGCAAATGGCTAAAACAGCCAAAGCTCTGATGGAGGCTGTGAGCCAT
GCCAAAGCCCCGTTTACCAGTGCCACTCACCTGGACCATGTCCGGCCAATGTTCAAACCTGGTGTGGACGCCACTA
TTGGCAGCCTACAGCATCGGACTCCAGAATGTGATGACACTGAAGTGGCCTCCTTGTGTTTGAAGGCATCCGA
TGTGCAATCCGAATCGCTGCATCTTTGGAATGCAGCTGGAACGAGATGCCTATGTTTCAGGCTCTTGCTCGCTTC
TCCCTACTCACAGCCAGCTCCAGCATCACAAAATGAAGCAGAAAAACATCGACACCATTAAAGACGCTTATCACA
GTGGCTCACACCGATGGCAACTACCTTGGGAATTCCTGGCATGAGATCTTGAAATGCATCAGCCAGCTGGAGCTC
GCTCAGCTGATAGGAACCGGTGTGAAGACGCGCTACCTGTCTGGATCTGGGCGTGAAAGAGAAGGGAGCCTGAAG
GGCCACACATTGGCAGGAGAAAGAGTTCATGGGCCTTGGCCTCGGTAATTTGGTGAAGTGGCGGAGTGAATAAAGA
CAGATGGCCAGCTTCCAAGAATCGGTTGGTGAGACCAGCTCGCAGAGTGTGGTTGTAGCTGTGGACAGGATTTTT
ACTGGGTCTACCAGACTGGATGGAAAATGCAATAGTTGACTTTGTCCGCTGGCTGTGTGCTGTGTCCATGGATGAA
CTGGCTTCCCCCACCATCCTCGCATGTTTCAGCTTGCAAGAGATTGTGGAGATATCATACTACAACATGAATCGG
ATCCGACTACAGTGGTCTCGAATATGGCATGTGATTGGAGATCACTTCAATAAGGTTGGCTGCAACCCTAATGAA

2336/2825
FIGURE 2060B

GATGTGGCTATCTTTGCTGTTGACTCATTAAAGGCAACTCTCCATGAAGTTTCTTGAGAAGGGTGAATTAGCCAAC
TTCCGTTTCCAGAAAGATTTTCTGAGGCCCTTTGAGCATATTATGAAGAAAAACAGGTCTCCCACCATCCGGGAC
ATGGCGATCCGCTGCATTGCCAGATGGTGAACCTCCAGGCGGCCAACATCCGCTCAGGTTGGAAGAACATCTTT
GCCGTGTTCCACCAGGCAGCCTCTGATCATGATGGGAACATTGTGGAGCTGGCCTTCCAGACCCTTGCCACATT
GTCACAACATATTTTCCAGCACCATTTTCTGACGCCATCGATTCTTTTTCAGGATGCTGTGAAGTGCTTATCAGAG
TTCGCCTGCAACGCCGCTTTCCCTGACACGAGCATGGAAGCGATTTCGGCTCATCCGCTTCTGTGGCAAATACGTC
TCTGAGAGGCCTCGGGTGCTACAAGAATACACAAGTGATGACATGAATGTAGCTCCTGGTGACAGAGTCTGGGTC
CGAGGCTGGTTCCCATCTTATTGCAACTCTCCTGCATCATTAAATAGATGCAAGTTAGATGTACGAACAAGGGGA
CTCACAGTCATGTTTGAGATCATGAAGAGCTATGGCCACACCTTTGAAAAGCACTGGTGGCAGGACCTGTTTCAGA
ATCGTGTTTTCGGATTTTGTGACAATATGAACTCCCTGAGCAACTGTCAGAGAAATCTGAGTGGATGACAACAACC
TGCAATCACGCACTTTATGCTATTTGTGATGTTTTTACCCAGTTTTATGAAGCTTTGAATGAAGTTCTTCTTTCT
GATGTATTTGCACAATTGCAGTGGTGTGTCAAACAAGATAATGAACAGTTGGCGCGATCAGGTACAAATTGCTTA
GAAAACCTTAGTAATATCCAATGGAGAGAAATTCAGTCCTGAAGTCTGGGATGAAACCTGCAACTGTATGTTGGAT
ATTTTCAAACAACCATCCACATGTTTTGCTGACATGGAGACCTGTAGGAATGGAGGAAGATTTCATCAGAAAAG
CATTGGATGTGGATCTGGACCGCCAGTCTTTAAGCAGCATAGATAAAAAATCCCTCTGAGAGGGGACAGAGCCAG
CTCTCTAACCCAACAGATGACAGCTGGAAGGGTAGACCATACGCAAATCAGAAACTGTTTGCCAGCCTCCTCATC
AAGTGTGTGGTCCAGTTGGAATTGATACAGACCATTGACAACATTGTGTTCTACCCTGCGACGAGCAAAAAGGAG
GATGCAGAGCACATGGTTGCCGCCAGCAAGACACGCTGGATGCAGATATCCACATAGAGACGGAGGATCAGGGC
ATGTATAAGTACATGTCTTCCAGCACCTCTTCAAGCTGTTGGACTGTTTGCAGGAATCCCATTCATTCTCAAAG
GCCTTCAACTCCAATTACGAGCAGCGGACTGTCTGTGGCGAGCAGGTTTTAAGGGCAAGTCTAAACCCAATCTT
CTAAAACAAGAAACCAGCAGCCTGGCCTGTTGTTTGAGGATCCTGTTTGAATGTATGTTGATGAGAACCGCAGG
GATTCTTGGGAAGAAATACAGCAGAGACTTTTAACTGTTTGCAGTGAAGCTCTTGCCTATTTTCATCACTGTGAAT
TCTGAGAGCCATCGGGAGGCCTGGACAAGTCTCTTGTGTTACTTCTAACTAAAACCTCAAAAATAAATGATGAA
AAGTTCAAAGCACATGCTTCAATGTACTACCCCTACTTGTGTGAAATTATGCAGTTTGACCTGATCCCTGAGCTC
CGAGCAGTTCTGCGGAAGTTCTTCTACGGATAGGTGTTGTGTATAAGATATGGATACCAGAAGAGCCATCACAG
GTACCAGCAGCACTGTCAACAGTGTGGTAGCCCTGGCTGCCAGGCCAGTGCTGCAGCTCTGCAGAATGTTTCAGC
ATGCCATTTCTGACTGGCACATCTCGTGAAGTTTCATAGAAACAAGGAGTTGGCATCTTGGATCTCAGAATGGCC
TGGAACGGATGGCCTCTACGCTGTTCCATCACAGTCTCCAATAAGGCTTATGGTATTTTCATTAACTGTTGCA
TACCCAGTTAGCACAGTAGGTGGGAGTCTGCTTCATTTCTATCATTCCATTTTCTGATTAACTGTCAAATCT
GTCATTGCATATGCCATCGTTTTCTAGCAAAATCCCATGATTGGCTATAAACGTTTTGTAAAGATCACTCTCCT
TGAAAATACTGAACATAGCTGTATAGGTTTGTGATTATTAGAGAATATGTTAATAAACTTCTTGTAACGGCTAA
CTGCCACCTAAAATATGCTGGGTTTTCTGTTGTTTGAGTGTGTTAGAGAAATTTGAATGTTTTTGTGATTACGA
GTCAGCCGTAAATTAGATTAGTTTAAAGGACAGGTCAGGATTAGAGAAGAGTTGTTTTTGTGTTTGTGTTAATGTCTG
AGTGATTTTTTAAAGTATTTTACAAAAAGATATTGAAAATTTGGTTGAAGGCAGAGTTTAGTAATTAAGTTAGAAT
TAAGAGTTTTGCGAGGTTAAAAAATGTGCCTCGTGGATCTCCCTGTTTTAGTAACATGGAGAGAAAAAGTCTAC
ACGAAAAAGTGAACAATTTAATGAAGATGATTAGCCTTCCTTGAAATAAGTATTTGTGGATGGGTGTTAAATTAA
AATTTCCAGAATACACTGTCCATCTCACACACTCTGAAATCTAATATATGAAGTAGTAATGAAAATGAAGTAGTA
ATTTAACCAGAGTTTCAATTTATCCTTGAATAAACCTTTTTATTTTACCTCAGAAAAGTGAGTGTACTGGCAGTTA
GTGTCAGTCTTTGACAGTCCCATTAAGGACCTCCAGAGAGGGACAGTAACTGTGCATGAGAAGCCGCTCC
CATAAGCCTCCTCAGCCAGATGTCATGGGTGGAACCTGGAGCTGTGTCGGGGCCAGCACAGCTGAACTGTGACAAT
GGCAGGAGGTGGCATGTGCCAGCACTTCCATTAATCTGAGCCTAGGAGTTGAATTTCTTTGGCAAGGTTGGATTCT
TGAGGTCTTTATTTATGTTAATGATGGTGCAATACTCTCACCTGCAGTAGAACTGAGTTCTGCTGCAGCTTGTGTA
AAAGTGGGCAGTACACAAGTACGTCCCAAAGCCTGTGAGCAGTATACGTGGATGCTCACCCATGAGAAGGAGCAC
ACACGCCTCATTCTCTGCCCTCACCACTGCTCACCTAGAGCATCGCTGAGCGTTAGACAAAGTGTTACACAGAA
TGATTAAAACCTTTAGACTTCTACCTATGCTCTTTAGTCTGTAAATTGGGTTGTATTGATGTCAACTCTGGTGC
CTTAGAAGTTAGTAGTTTGGGAACCTATCTGTAAAATCAGATGTTTTTTCTTTGTAGAGAAGGATTTCTGGTGC
TTTGCTTACTAAGAGACCGATATTCTTAAGTTGTTTTCTTGTGTTTTAACAGCCTTGAGAAATGTTTGGTTTTGGCC
AGCAGAATTCTTGTCTACTTTTTTTCTTTCCCAAAGTGTTTTTTAATTTCTCTACCAAAGAAAAAATGAGCAGG

2337/2825
FIGURE 2060C

TTTAGGTTTTTACATGACTTATATACATTAGATAAAAAGGAGCTGTATAATTTAGCAGGAAAGGACTATGGGAGAA
TACTTTACTGTGAGTGGAAAATGTTAGCACATTTGACTGGTTTGCCCTGGAATCCACTGCACCTTTTACTGTCAC
CATGAAACCTTACACTCCCTGGTATCATAGCGCGTCATCACCTCAACAAGTCAGTCGTCTCCATTGATATTTGTAC
AAAAGGTATACATGGGGAACACGTGTTCAATTCATTAAGTCCATCTTGCGTGCAGCTATATCCCTGATTGGTTATT
TTTCCTTTTCCTTCTGAGGTTCTCATGTCAATTTCTTCATCGGATGTGACTAAAATTTTTCTGGTGTCTTCTGCC
TCTCTTTAATTTTTGCCTCTTGAGGGGTAGCAGATGTGTCAGTGCATTTTATTACTTGCTGAAACATTCAGGCTTA
CATTTCTTATTAGTTTAGTATTTTAAAAGATTTAATTTTCTGAATGAGGCATTTGAATTGTACCAGCAATGGACT
TTTAAAAAATTGGATGTAAACCATTTCAGGGTGATTTTTCTTGTCAGTGGACAGTGACGAACAGAGATTTGAAAT
CCCTTACCTCCAATAATAAGCCATTTCAGCCTAAATTCATTTTTATGAATAAATCTCTTCTTCTCATGGTAAATG
TGGCTTGTGCCACTCAAACACTAGTGAAAGGGTATGTACAACCGCAACATCAGGCCAGGACACCATTTATTTAAC
CAAGTAATGGAGGAGAGTGAAACATTTTCCAAGGCCTTATTTCTTTTTTCATAATGCTTTAAGTGTGATTATATG
TGCTGGGTCTCTAGAGAAGTTTTTATTTGTTACAATACTGCTGCTTTGAGCAATTTTGTTTCTCTTCATTGTCTG
TTAGGGGAATCACCAGCTTTGGCATCTTAACAACAGACAGTGGATGGGTAATTTTTTATTTCTGATACGCATCTTT
AGAGTCAAATATATCTTTTCCCTGTACTCCTCATGTACAACCAAAGAACATACATTATGAAAATTGTATTATAAT
ATCTGGAAACACAACATTTTCTCTGGCAGGTGACTTTTTGTACGAAATGAAAAAAAAAACCTGTATTTTTTTTTG
TTGTTCTTTTGTGATTAAAGGATATACATTTAGTAGTCTTTGTTATTAAAGGAACCTGCTGATAAGTACAAGTGTG
ACCATCTCATTCAAATGTTTGTGTTATGATGCAAATGGATATTGGTTTCAATAGAAGCTGGATCCTTAATACTG
CATTTTCTGAATTCGTTTTTAATATTTGTGTTAAAGTAGACATAGCTGAACTCACATGGAATCCTGGAGTTTGT
TATCAGCAGCTTTGCAGTTTGGGAAACAAAGAAACCAAAGCTGAGTGTTTTAAAGAATGAACATATCTGGAAATC
CTTGCTCTCAAAACAAAACAATATAATCTATCAAAGGTGTTTTACTCAGTGTTCTAATTTTTTAAAAAATTTTATC
TGCATATTTGCATCAAATATTTATGTGTAAAAATGTAATGTTTTACCTCCTTAAATGCCTAAAAGTTAGTTAATAG
TTACTTTGGTTTAAACCTATACACAATGATTAAAGTGCATTTAATATTGGTAATTTAATGAAAACCATTCCTTGCCC
AATGGATGTATAAATTTTTGAAAGAATAAGCAGAATTATATAATATGAAATGCTATGTAAAGTTTTCTATGTAAA
AATATTATGTATAATACTATTAAATATCCCATGCTTTGATCAGGTGGTACATCAATAAAATTTTAAAAAGT

2338/2825
FIGURE 2061

MQESQTKSMFVSRAL EKILADKEVKRPQHSQ LRRACQVALDEIKAEIEKQRLGTAAPPKANFIEADKYFLPFELA
CQSKSPRVVSTSLDCLQKLIAYGHITGNAPDSGAPGKRLIDRIVETICSCFQGPQTDEGVQLQIIKALLTAVTSP
HIEIHEGTILQTVRTCYNIIYLASKNLINQTTAKATLTQMLNVIFTRMENQVLQEARELEKPIQSKPQSPVIQAAA
VSPKFVRLKHSQAQSKPTTPEKTDLTNGEHARSDSGKVSTENGDA PRERGSLSGTDDGAQEVVKDILEDVV TSA
IKEAAEKHGLTEPERVLGELECQECAIPPGVDENSQTNGIADDRQSLSSADNLESDAQGHQVAARFSHVLQKDAF
LVFRSLCKLSMKPLGEGPPDPKSHELRSKVVS LQLLSVLQONAGPVFRTHEMFINAIKQYLCVALSKNGVSSVPD
VFELSLAIFLTL LSNFKMHLKMQIEVFFKEIFLNILETSTSSFEHRWMVIQTLTRICADAQCVVDIYVNYDCDLN
AANIFERLVNDLSKIAQGRSGHELGMTPLQELSLRKKGLECLVSI LKCMVEWSKDLYVNP NHQTSLGQERLTDQE
IGDGKGLDMARRCSVTSMESTVSSGTQTTVQDDPEQFEVIKQKKKIEHGIELFNKKPKRGIQFLQEQGMLGTSV
EDIAQFLHQEERLDSTQVGDFLGDSARFNKEVMYAYVDQLDFCEKEFVSALRTFLEGFRLPGEAQKIDRLMEKFA
ARYIECNQGQTLFASADTAYVLAYSIIIMLTDDLHSPQVKNKMTKEQYIKMNRGINDSKDLPEEYLSSIYEEIEGK
KIAMKETKELTIATKSTKQNVASEKQRRLLYNLEMEQMAKTAKALMEAVSHAKAPFTSATHLDHVRP MFKLWVTP
LLAAYSIGLQNCDDTEVASLCLEGIRCAIRIACIFGMQLERDAYVQALARFSLLTASSSITKMKQKNIDTIKTLI
TVAHTDGNYLGN SWHEILKCISQLELAQLIGTG VKTRYLSGSGREREGSLKGHTLAGEEFMGLGLGNLVSGGVNK
RQMASFQESVGETSSQS VVVAVDRIFTGSTRLDGNAIVDFVRWLCVSMDELASPHHPRMFS LQKIVEISYNNMN
RIRLQWSRIWHVIGDHF NKVGCNPNEDVAIFAVDSL RQLSMKFLEKGELANFRFQKDFLRPF EHHMKNRSPTIR
DMAIRCIAQMVNSQAANIRSGWKNIFAVFHQAASDHDGNIVELAFQTTCHIVTTIFQHHPAAIDSFQDAVKCLS
EFACNAAFPDTSM EAIRLIRFCGKYVSERPRVLQEYTSDDMN VAPGDRVWVRGWFPILFELSCIINRCKLDVRTR
GLTVMFEIMKSYGHTFEKHWWQDLFRIVFRIFDNMKLPEQLSEKSEWMTTTCNHALYAICDVFTQFY EALNEVLL
SDVFAQLQWCVKQDNEQLARSGTNCL ENLVISNGEKFSPEVWDETCNCMLDIFKTTIPHVLLTWRPVGMEEDSSE
KHLDVDLDRQSLSSIDKNP SERGQSQLSNPTDDSWKGRPYANQKLFASLLIKCVVQLELIQTIDNIVFY PATSKK
EDAEHMAAQQDTLDADIHIETEDQGM KYMSSQH LFKLLDCLQESH SFSKAFNSNYEQRTVLWRAGFKGSKPN
LLKQETSSLACCLRILFRMYVDENRRDSWEEIQQRLLTV CSEALAYFITVNSESHREAWTSLLLLLLTKTLKIND
EKFKAHASMYYPYLCEIMQFDLIPELRAVLRKFFLRIGVVYKIWIPEEPSQVPAALSPVW

2339/2825
FIGURE 2062

TCATGTCACAGCCAAAGCAGAGGGCTGGCAGGCAGCGTGCGGCAGAAGATGCTTCTCGACTACAGCGGTGTACATG
GGCAGGTGTGTCCCCAGGAAAGCCGAAGCCCCCAGAGGAGCCCCCTGCAGAGTGCGGAGAGCAGCCCCACAGCT
GGGAAGAAGTTGCCAGAGGTTCCACCCCTCTGAGGAGGAAGAACAGGAAGCCTGGGTGAATGCCTTGCTTGGAAGA
ATATTTTGGGACTTCTTAGGAGAGAAATACTGGTCTGATCTGGTGTCTAAGAAGATCCAAATGAACTCAGCCAA
ATAAAGCTCCCCTACTTTAGGAATGAGCTCACTCTGACGGAACCTTGACATGTGCGTGGCTTTGCCAAAAAATCCT
CCGGGCCCTTCAAGCCTTACGTTGATCACCAAGGACTCTGGATTGATTTGGAAATGTCCTACAATGGGTCTTTCT
GATGACTCTCGAGACCAAAATGAATTTGCCTAAACTAGGTAAAGAGCCTCTTGTTGAAGCCCTGAAGGTTGGAGA
AATTGGCAAAGAAGGTTGCAGGCCCCGGGCATTCTGTCTGGCGGACAGCGATGAGGAATCCTCCAGCGCTGGCTC
CTCCGAGGAAGACGATGCCCCAGAGCCCAGCGGGGAGACAAACAGCTCCTCCCAGGGGCTGAAGGTACGTTGG
AGGTCATCGAACAAGTAAGATTATGAGGTTTGTGATAAAATTACCAAGTCAAAATATTTCCAAAAAGCAACAGA
GACAGAGTTTATTAAAAAGAAGATCGAAGAAGTCTCCAACACACCCCTGCTGCTCACTGTTGAAGTACAAGAATG
TAGAGGAACCTTGGCGGTCAACATTCCACCACCCCGACTGACCGAGTATGGTATGGTTTCCGAAAGCCACCACA
TGTGGAGCTGAAAGGGCCAAAACCTTGGAGAGAGAGAAGTGACTTTAGTTTCATGTGACAGACTGGATAGAGAAGAA
ACTGGAGCAAGAGTTTCAGAAAGTTTTTGTTCATGCCAAACATGGATGATGTTTATATCACTATAATGCACTCAGC
CATGGACCCTCGCTCTACTTCCTGCCTCCTGAAAGACCCACCTGTGGAGGCTGCTGATCAGCCAATGAGTGGGTGAT
GTCAGATGTTCCCATATTGTACATCGAGCTGGATGTGTGGGGTTCTTGGCCGCCATCTGTACTGTAGCACTGGC
CTCTGTGCCACAGCTACTGTTTCTTAAGGACTGCTTCTGCCCTCTGCCTGCCAGTGCCCATTCACCTGTGAGGTG
TCATTCCCTGCATCTAGTGACAACCTGTCTGGATTGCCTGCTGCAAACGTTTGATTTGGCAAAGGAGACCATGGAA
GAATCATGGTGGATCCAGAAGTTATACGTGACCCACACCATGGCTTTTAAAAGTCTACCCATGTTTGTGGCAGCA
AATGAGCACAGTAAGAGCAAAGCTGAACAACCTGCCTCCTCTACTCCTCCAAAGCTTTTCTTCAGGCAGCCGGTG
CACAGTGGACTTTTTCACTTCTATACTTTGTATGCGGCCTTCCACACTTCCAGAGAATGTCAGTGTGCAATGTGT
CTGGAGGGTGGGAGAGGAATTCTGTGGAGGCCTTTTCATTTGCGGTGACAGAAGAGATGGGCAGAXAATTATTT
TCCACATTAAATTGTGCATTTGGGAAGCAAGTAGCCATAGTACACACACAACACGCTATCAGCTTGGGTAAGGAC
AGTGGGATTTATGTGAACATCATGGCAAAGCAXTGAGATCAAACCATCCCAAGCCTTTACCAATGAGGTACAAC
CACCTGGGGGCTAGCTAATCTTGAATGTTTTCTTGAGACAGGAGCGTATGTGAAAACATCAAACACTGCACATGA
CAGGATGGGTCTCTCATACAGXTGGGATGGGGTTAAGAAAGCCAGAGCCAGTTTTTCCATCTGGCGTTTCTGTG
TCCTCCAGGTTTATATGGGAATCGAAACAGTTTGTTAATCTGATTGGGAGAGTTCCATGGGCAGATTTCCCTTCC
TGAAGGCCAAAACGGAGAAGCTGCTCTCTTTAATTATTTCAAGAGTCAAGACCAAAGTTTGCTCAGCATCACACT
ACATCTCAAAATTAATGTTGCCAACTTAATTTTGTGCATTTGTGTGAGAATGTTTAGTTTACAAGGTTGGGGGCT
CTCTTTGCTTCGAGAAGTAAACCTAATACCATTTTTTTAATTGTTTAAAGCTGCATTCAACGTCAAAATTACCTTG
GGTAACTTTTGATAACTTACATGTGTGGACAAAGCTAATAGTGGTTTTTTAAACAGCACCTTGCCTGAACATGAC
TTTAAAGAAATTAATATATTGAAAACATGTTTGAACCCTTATTTTAATTGCACCATTAAAACATTTGACTTAAAA
AAAAAAAAAAAAAA

2340/2825
FIGURE 2063

MSYNGSFLMTLETKMNLPKLGKEPLVEALKVGEIGKEGCRPRAFCLADSDEESSSAGSSEEDDAPEPSGGDKQLL
PGAEGYVGGHRTSKIMRFVDKITKSKYFQKATETEFIKKKIEEVSNTPLLLTVEVQECRGTAVNIPPPPTDRVW
YGFRKPPHVELKGPKLGEREVTLVHVTDWIEKKLEQEFQKVFVMPNMDDVYITIMHSAMDPRSTSCLLKDPPVEA
ADQP

2341/2825
FIGURE 2064

GATCGGGCGGCGCCGAGCTGAGGTGGTGAGGGACTAGCTCCCGGATGTGGAGAAGCTGGGGAGAAGGCGTGGGAG
GAAG**ATG**GACTCGGTGGAGAAGGGGGCCGCCACCTCCGTCTCCAACCGCGGGGGCGACCGTCCCGGGGCCGGCC
GCCGAAGCTGCAGCGCAACTCTCGCGGGCGGCCAGGGCCGAGGTGTGGAGAAGCCCCCGCACCTGGCAGCCCTAAT
TCTGGCCCCGGGGAGGCAGCAAAGGCATCCCCCTGAAGAACATTAAAGCACCTGGCGGGGGTCCCGCTCATTGGCTG
GGTCCTGCGTGCGGCCCTGGATTTCAGGGGCCCTTCCAGAGTGTATGGGTTTCGACAGACCATGATGAAAATTGAGAA
TGTGGCCAAACAATTTGGTGCACAAGTTTCATCGAAGAAGTTCTGAAGTTTCAAAGACAGCTCTACCTCACTAGA
TGCCATCATAGAATTTCTTAATTATCATAATGAGGTTGACATTGTAGGAAATATTCAAGCTACTTCTCCATGTTT
ACATCCTACTGATCTTCAAAAAGTTGCAGAAATGATTGAGAAGAAGGATATGATTCTGTTTTCTCTGTTGTGAG
ACGCCATCAGTTTCGATGGAGTGAAATTCAGAAAGGAGTTCGTGAAGTGACCGAACCTCTGAATTTAAATCCAGC
TAAACGGCCTCGTCGACAAGACTGGGATGGAGAATTATATGAAAATGGCTCATTTTATTTTGCTAAAAGACATTT
GATAGAGATGGGTTACTTGCAGGGTGGAAAAATGGCATACTACGAAATGCGAGCTGAACATAGTGTGGATATAGA
TGTGGATATTGATTGGCCTATTGCAGAGCAAAGAGTATTAAGATATGGCTATTTTGGCAAAGAGAAGCTTAAGGA
AATAAACTTTTGGTTTGCAATATTGATGGATGTCTCACCAATGGCCACATTTATGTATCAGGAGACCAAAAAGA
AATAATATCTTATGATGTAAAAGATGCTATTGGGATAAGTTTATTAAAGAAAAGTGGTATTGAGGTGAGGCTAAT
CTCAGAAAGGGCCTGTTCAAAGCAGACGCTGTCTTCTTTAAACTGGATTGCAAAATGGAAGTCAGTGTATCAGA
CAAGCTAGCAGTTGTAGATGAATGGAGAAAAGAAATGGGCCTGTGCTGGAAAGAAGTGGCATATCTTGGAAATGA
AGTGTCTGATGAAGAGTGCTTGAAGAGAGTGGGCCTAAGTGGCGCTCCTGCTGATGCCTGTTCTACTGCCCAGAA
GGCTGTTGGATACATTTGCAAATGTAATGGTGGCCGTGGTGCCATCCGAGAATTTGCAGAGCACATTTGCCTACT
AATGGAAAAGGTTAATAATTCATGCCAAAAA**TAG**AAATTAGCGTAATATTGAGAAAAAATGATACAGCCTTCTT
CAGCCAGTTTGCTTTTATTTTTGATTAAGTAAATTCATGTGTGAATGTTACAGAGAGTGTGATTTGGTTTGTGA
TATATATATATTGTGCTCTACTTTTCTCTTTACGCAAGATAATTATTTAGAGACTGATTACAGTCTTTCTCAGAT
TTTTAGTAAATGCAAGTAAGAACATCATCAAAGTTCACCTTTGTATTGTACCCTGTAAAAGTGTGTGTTTGTGTGC
TTTCAAAGATGTTGGGATTTTATTTATCTGGGGACAGTGTGTATGGTAAGACATGCCCTTCTATTAATAAAACTA
CATTCTCAAACCTGA

2342/2825
FIGURE 2065

MDSVEKGAATSVSNPRGRPSRGRPPKLQNSRGGQGRGVEKPPHLAALILARGGSKGIPLKNIKHLAGVPLIGWV
LRAALDSGAFQSVWVSTDHDEIENVAKQFGAQVHRRSSEVSKDSSTSLDAIIEFLNYHNEVDIVGNIQATSPCLH
PTDLQKVAEMIREEGYDSVFSVRRHQFRWSEIQKGVREVTEPLNLNPAKRPRRQDWDGELYENGsfYFAKRHLI
EMGYLQGGKMAYYEMRAEHSVDIDVDIDWPIAEQRLRYGYFGKEKLKEIKLLVCNIDGCLTNNGHIYVSGDQKEI
ISYDVKDAIGISLLKKSGIEVRLISERACSKQTLSSLKLDCKMEVSVSDKLAVVDEWRKEMGLCWKEVAYLGNEV
SDEECLKRVGLSGAPADACSTAQKAVGYICKNGGRGAIREFAEHICLLMEKVNNSCQK

2343/2825
FIGURE 2066

GGGCTGACTGGAGGCTGGCGGACAGGCGACAGACCTGCGGCAGGACCAGAGGAGCGAGACGAGCAAGAACCACAC
CCAGCAGCA**ATG**TCAGCGGAAGTGGAAACCTCAGAGGGGGTAGACGAGTCAGAAAAAAGAACTCTGGGGCCCTA
GAAAAGGAGAACCAAATGAGAATGGCTGACCTCTCGGAGCTCCTGAAGGAAGGGACCAAGGAAGCACACGACCGG
GCAGAAAACACCCAGTTTGTCAAGGACTTCTTGAAAGGCAACATTAAGAAGGAGCTGTTTAAAGCTGGCCACCACG
GCACTTTACTTTCACATACTCAGCCCTCGAGGAGGAAATGGAGCGCAACAAGGACCATCCAGCCTTTGCCCTTTG
TACTTCCCCATGGAGCTGCACCGGAAGGAGGCGCTGACCAAGGACATGGAGTATTTCTTTGGTGAAAACGAGGAG
GAGCAGGTGCAGTGCCCCAAGGCTGCCCAGAAGTACGTGGAGCGGATCCACTACATAGGGCAGAACGAGCCGGAG
CTACTGGTGGCCCATGCATACACCCGCTACATGGGGGATCTCTCGGGGGGCCAGGTGCTGAAGAAGGTGGCCAG
CGAGCACTGAAACTCCCCAGCACAGGGGAAGGGACCCAGTTCTACCTGTTTGAGAATGTGGACAATGCCCAGCAG
TTCAAGCAGCTCTACCGGGCCAGGATGAACGCCCTGGACCTGAACATGAAGACCAAAGAGAGGATCGTGGAGGAG
GCCAACAAGGCTTTTGTAGTATAACATGCAGATATTCAATGAACTGGACCAGGCCGGCTCCACACTGGCCAGAGAG
ACCTTGGAGGATGGGTTCCTGTACACGATGGGAAAGGAGACATGCGTAAATGCCCTTTCTACGCTGCTGAACAA
GACAAAGGTGCCCTGGAGGGCAGCAGCTGTCCCTTCCGAACAGCTATGGCTGTGCTGAGGAAGCCCAGCCTCCAG
TTCATCCTGGCCGCTGGTGTGGCCCTAGCTGCTGGACTCTTGGCCTGGTACTACATG**TGA**AGCACCCATCATGCC
ACACCGGTACCCTCCTCCCGACTGACCACTGGCCTACCCCTTTCTCCAGCCCTGACTAAACTACCACCTCAGGTG
ACTTTTTAAAAAATGCTGGGTTTAAGAAAGGCAACCAATAAAAGAGATGCTAGAGCCTCGTCTGACAGCATCCTC
TCTATGGGCCATATTCCGCACTGGGCACAGGCCGTCACCCCTGGGAGCAGTCGGCACAGTGCAGCAAGCCTGGCCC
CCGACCCAGCTCTACTCCAGGCTTCCACACTTCTGGGCCCTAGGCTGCTTCCGGTAGTCCCTGTTTTTGCAGTAC
ATGGGTGACTATCTCCCCTGTTGGAGGTGAGTGGCCTGTAAGTCCAAGCTGTGCGAGGGGGCCTTGCTGGATGCT
GCTGTACAACTTCTGGGCCTCTCTTGGACCCTGGGAGTGAGGGTGGGTGTGGGTGGAAGCCTCAGAGGCCTTGGG
AGCTCATCCCTCTCACCCAGAATCCCTCTAACCCCTGGGTGCGGTTTGCTCAGCCCCAGCTTATCTCCTCCTCCG
CCTGTGTAAATGCTCCAGCACTCAATAAAGTGGGCTTTGCAAGCTAAAAAAAAAAAAAAAAA

2344/2825
FIGURE 2067

MSAEVETSEGVDESEKKNSGALEKENQMRMADLSELLKEGTKEAHDRAENTQFVKDFLKGNIKKELFKLATTALY
FTYSALEEEEMERNKDHPAFAPLYFFPMELHRKEALTKDMEYFFGENWEEQVQCPKAAQKYVERIHYIGQNEPELLV
AHAYTRYMGDLGGQVLKKVAQRALKLPSTGEGTQFYLFENVDNAQQFKQLYRARMNALDLNMKTKERIVEEANK
AFEYNMQIFNELDQAGSTLARETLEDGFPVHDGKGDMRKCPFYAAEQDKGALEGSSCPFR TAMAVLRKPSLQFIL
AAGVALAAGLLAWYYM

2345/2825
FIGURE 2068

GACGTCACGGTCACTGACAGCGTGAGCCCGCGGCGGCTGCTGCCATGGTGGCTGGCGGCCGGGTAAGGGTCTGAG
TGGATCTCCTGCCAGGCCAGAGCGCCTTCGGGGGCCGCGGCGGAAGGCCAGGAGTTTGCAGCCAGGGCGCCGGGT
TTGTGGTCTGCAGTGTCTGTGAGGCTGAGGTGCAGC**ATG**TCTAGACTGGGAGCCCTGGGTGGTGCCCCGTGCCGGGC
TGGGACTGTTGCTGGGTACCGCCGCCGGCCTTGGAATCCTGTGCCTCCTTTACAGCCAGCGATGGAAACGGACCC
AGCGTCATGGCCGCAGCCAGAGCCTGCCCAACTCCCTGGACTATACGCAGACTTCAGATCCCGGACGCCACGTGA
TGCTCCTGCGGGCTGTCCCAGGTGGGGCTGGAGATGCCTCAGTGCTGCCAGCCTTCCACGGGAAGGACAGGAGA
AGGTGCTGGACCGCCTGGACTTTTGTGCTGACCAGCCTTGTGGCGCTGCGGCGGGAGGTGGAGGAGCTGAGAAGCA
GCCTGCGAGGGCTTGCGGGGGAGATTGTTGGGGAGGTCCGATGCCACATGGAAGAGAACCAGAGAGTGGCTCGGC
GGCGAAGGTTTCCGTTTTGTCCGGGAGAGGAGTGA**CT**CCACTGGCTCCAGCTCTGTCTACTTACGGCCTCCTCGG
GAGCCACGTTACAGATGCTGAGAGTGAAGGGGGTTACACAACAGCCAATGCGGAGTCTGACAATGAGCGGGACT
CTGACAAAGAAAGTGAGGACGGGGGAAGATGAAGTGAGCTGTGAGACTGTGAAGATGGGGAGAAAGGATTCTCTTG
ACTTGAGGAAGAGGCAGCTTCAGGTGCCTCCAGTGCCCTGGAGGCTGGAGGTTCTCAGGCTTGAGGATGTGC
TGCCCCCTCCTGCAGCAGGCCGACGAGCTGCACAGGGGTGATGAGCAAGGCAAGCGGGAGGGCTTCCAGCTGCTGC
TCAACAACAAGCTGGTGTATGGAAGCCGGCAGGACTTTCTCTGGCGCCTGGCCCCGAGCCTACAGTGACATGTGTG
AGCTCACTGAGGAGGTGAGCGAGAAGAAGTCATATGCCCTAGATGGAAGAAGAAGCAGAGGCTGCTCTGGAGA
AGGGGGATGAGAGTGCTGACTGTACCTGTGGTATGCGGTGCTTTGTGGTCAGCTGGCTGAGCATGAGAGCATCC
AGAGGCGCATCCAGAGTGGCTTTAGCTTCAAGGAGCATGTGGACAAAGCCATTGCTCTCCAGCCAGAAAACCCCA
TGGCTCACTTTCTTCTTGCGAGGTGGTGCTATCAGGTCTCTCACCTGAGCTGGCTAGAAAAAAAAAACTGCTACAG
CCTTGCTTGAAAGCCCTCTCAGTGCCACTGTGGAAGATGCCCTCCAGAGCTTCCTAAAGGCTGAAGAACTACAGC
CAGGATTTTCCAAAGCAGGAAGGGTATATATTTCCAAGTGCTACAGAGA**ACT**AGGGAAAA**ACT**CTGAAGCTAGAT
GGTGGATGAAGTTGGCCCTGGAGCTGCCAGATGTCACGAAGGAGGATTTGGCTATCCAGAAGGACCTGGAAGAAC
TGGAAGTCATTTTACGAGAC**TAA**CCACGTTTCACTGGCCTTCATGACTTGATGCCACTATTTAAGGTGGGGGGGC
GGGGAGGCTTTTTTCTTAGACCTTGCTGAGATCAGGAAACCACACAAATCTGTCTCCTGGGTCTGACTGCTACC
CACTACCACTCCCCATTAGTTAATTTATTCTAACCTCTAACCTAATCTAGAATTGGGGCAGTACTCATGGCTTCC
GTTTCTGTTGTTCTCTCCCTTGAGTAATCTCTTAAAAAAATCAAGATTACACCTGCCCCAGGATTACACATGGG
TAGAGCCTGCAAGACCTGAGACCTTCCAATTGCTGGTGAGGTGGATGA**ACT**TCAAAGCTATAGGAACAAAGCACA
TAACTTGTCACTTTAATCTTTTTCACTGACTAATAGGACTCAGTACATATAGTCTTAAGATCATACCTTACCTAC
CAAGGTAAAAAGAGGGATCAGAGTGGCCACAGACATTGCTTTCTTATCACCTATCATGTGAATTCTACCTGTAT
TCCAGGGCTGGACCACTTGATAACTTCCAGTGTCTGGCAGCTTTTGGAATGACAGCAGTGGTATGGGGTTTATG
ATGCTATAAAACAATGTCTGAAAAGTTGCCTAGAATATATTTTGTACAACTTGAAATAAACCAAATTTGATGT
T

2346/2825
FIGURE 2069

MSRLGALGGARAGLGLLLGTAAGLGFLCLLYSQRWKRTQRHGRSQSLPNSLDYQTSDPGRHVMLLRVPGGAGD
ASVLPSPREGQEKVLDRLDFVLTSVLALRREVEELRSSLRGLAGEIVGEVRCHMEENQRVARRRRFPFVRERSD
STGSSSVYFTASSGATFTDAESEGGYTTANAESDNERDSKESEDGEDEVSCETVKMGRKDSLDLEEEAASGASS
ALEAGGSSGLEDVLP LLQADELHRGDEQGKREGFQ LLLNNKLVYGSRQDFLWRLARAYS DMCELTEEVSEKKS Y
ALDGKEEAEEALEKGDESADCHLWYAVLCGQLAEHESIQRRIQSGFSFKEHVDKAIALQPENPM AHFLLGRWCYQ
VSHLSWLEKKTATALLSPLSATVEDALQSFLKAEELQPGFSKAGRVYISKCYRELGKNSEARWWMKLAL ELPDV
TKEDLAIQKDLEEELEVILRD

2347/2825
FIGURE 2070

AGCTTTTATTTTCTCCTCTCCAGTGGGGTTGGCTTTTATTGTTTCTTGTTTGGGTTTGGGAATGGAAATATGGATA
GCAGCATAAAGTACTTTTATTTTGACAAAATTCATTTTTTTCAACAATGGAGACATAGATTGACCCACAATAAC
TTCTCCCCCTCTCTTTTTACTCTGCTCAAAAAGCATCTCTCCTCCCATTACCCAACCTTGGTCATAAGTGTGCCT
GGCTGGTTTGCAGATATTTGTTCTGCTTTGTAAAAATTGGCCATTAGTGCATTTATTGAGATGATCTCTAAAGAG
CTATGCCCTGACCTACCCCTGATTCTATGACATTGGGGCCCTTCTTTTGCTGAAACTGCCTTACGTAAATGGTTTT
ACTCCTTGAAAGAGATTTGACGGAATCCATTTTATGCCAAGTGCTGCCCTGCACTGTTTCTGCAATATGTGGTGT
ATGCTGTGGTGATCTTGCTGGGAATGATTATAAGTGTGTGTGTGATGGGGGAGTGGGTATTACATGCATTGCTGA
AGAGTCATCCTGGTGTTCTCATTCTCCACCTTCCCGTGGTCATTTTAATTACGGGGCAGTGTACCCGCAAAG
GGAGGAAACTCAAAGCCGAAAGCAAATTCAGGCCTGATTCTGGCTTTTTGAGGTTCTTGTTCTTGAAGCCAGG
CCTGACCCGACTCTCAGATGGGGTCAGTCCCGTCGCTTTCAGACTGACCCTGGAAATCTACAAAATGCAGATTT
TCCTGATTTCTCTTCTCTTGCCAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAGCCTGGATTGTAACCAG
ATTTTCTTTTTTCCCCCTTCTCAGCTGTAGATATGATATCTCCTTTCAGGGCCCCAGCTTAAGGGCAAAGTGAGT
TAATGTGTAGACAAAGGCGAGGGACAAGAGAGAGTTAACATCTAGACAGTGGAAAAAGCCATGGTGTGTGGTTTC
TGGGAACCACCAACACTTGCAGGTTTAGCTTTTTCCCAGGGTTGACTACAAGAAAGAAAACCATGTTTTTGCAAG
ATTAAAATGTGGTTGAGTGTGCCTAAATTAACCATCCCCATTTTTATCATATTTCCACCATCACTTCAGGGTTTT
AAGAGTCAGTGCTCACCTGGGCGGAGCTGGTAGTACATTTTGCTTCTTAGAAAGCTAAGTCTGGGTTCCGTCTG
ATTTTAGGTTCCAGGAACCTCCTGAGAACACCCGATCGCAGAGGGTAATTTTCTGGAGTTTGTTTTGCAGGGATA
GCTGGGAGTATGGCCACCCTGCTCCACGATGCGGTAATGAATCCAGCAGAAGTGGTGAAGCAGCGCTTGCAGATG
TACAACTCGCAGCACCGGTCAGCAATCAGCTGCATCCGGACGGTGTGGAGGACCGAGGGGTTGGGGGCCCTTCTAC
CGGAGCTACACCACGCAGCTGACCATGAACATCCCCTTCCAGTCCATCCACTTCATCACCTATGAGTTCCTGCAG
GAGCAGGTCAACCCCCACCGGACCTACAACCCGCGAGTCCCACATCATCTCAGGCGGGCTGGCCGGGGCCCTCGCC

2348/2825
FIGURE 2071

MVLLLERDLTESILCQVLPCTVSAICGVCCGDLAGNDYKCVCDGGVGITCIAEESSWCSSFLPPSRGHFNYGAVS
PQREETQSRKQNSRPDSGF

2349/2825
FIGURE 2072

GGCGAAGGAGATCAGCAGGACGCTGCGCACAAC**ATG**GGCAACCACCTGCCGCTCCTGCCTGCAGAGAGTGAGGAA
GAAGATGAAATGGAAAGTTGAAGACCAGGATAGTAAAGAAGCCAAAAAACCAAACATCATAAATTTTGACACCACT
CTGCCGACATCACATACATACCTAGGTGCTGATATGGAAGAATTTTCATGGCAGGACTTTGCACGATGACGACAGC
TGTCAGGTGATTCCAGTTCTTCCACAAGTGATGATGATCCTGATTCCCGGACAGACATTACCTCTTCAGCTTTTT
CACCCCTCAAGAACTCAGTATGGTGCGGAATTTAATTCAGAAAAGATAGAACCCTTTGCTGTTCTTGCATACAGCAAT
GTACAGGAAAGGGAAGCACAGTTTGGAACAACAGCAGAGATATATGCCTATCGAGAAGAACAGGATTTTGGAATT
GAGATAGTGAAAGTGAAAGCAATTGGAAGACAAAGGTTCAAAGTCCTTGAGCTAAGAACACAGTCAGATGGAATC
CAGCAAGCTAAAGTGCAAATTCCTCCCGAATGTGTGTTGCCCTTCAACCATGTCTGCAGTTCAATTAGAATCCCTC
AATAAGTGCCAGATATTTCTTCAAACCTGTCTCAAGAGAAGACCAATGTTTCATATAAATGGTGGCAGAAATAC
CAGAAGAGAAAGTTTCATTGTGCAAATCTAACTTCATGGCCTCGCTGGCTGTATTCCTTATATGATGCTGAGACC
TTAATGGACAGAATCAAGAAACAGCTACGTGAATGGGATGAAAATCTAAAAGATGATTCTCTTCCTTCAAATCCA
ATAGATTTTTCTTACAGAGTAGCTGCTTGCTTCTCTATTGATGATGTATTGAGAATTCAGCTCCTTAAAATTGGC
AGTGCTATCCAGCGACTTCGCTGTGAATTAGACATTATGAATAAATGTACTTCCCTTTGCTGTAAACAATGTCAA
GAAACAGAAATAACAACCAAAAATGAAATATTCAGTTTATCCTTATGTGGGCCGATGGAGCTTATG**TGA**ATCCTC
ATGGATATGTGCATGAGACACTTACTGTGTATAAGGCTTGCAACTTGAATCTGATAGGCCGGCCTTCTACAGAAC
ACAGCTGGTTTCCTGGGTATGCCTGGACTGTTGCCAGTGTAAGATCTGTGCAAGCCCATATTGGATGGGAAGTT
TACGGCCACCAAAAAAGACATGTCACCTCAAAAATTTGGGGCTTAACGCGATCTGCTCTGTTGCCACGATCCC
AGACACTGAAGATGAAATAAGTCCAGACAAAGTAATACTTTGCTTGTAACAGATGTGATAGAGATAAAGTTATC
TAACAAATTGGTTATATTCTAAGATCTGCTTTGGAAATTATTGCCTCTGATACATACCTAAGTAAACATAACATT
AATACCTAAGTAAACATAACATTACTTGGAGGGTTGCAGTTTCTAAGTGAACTGTATTTGAACTTTTAAGTAT
ACTTTAGGAAACAAGCATGAACGGCAGTCTAGAATACCAGAAACATCTACTTGGGTAGCTTGGTGCCATTATCCT
GTGGAATCTGATATGTCTGGTAGCATGTCATTGATGGGACATGAAGACATCTTTGGAATGATGAGATTATTTCC
TGTGTTAAAAAAAAAAAAA

2350/2825

FIGURE 2073

MGNHLPLLP AESEEEDEMEVEDQDSKEAKKPNIINFDTSLPTSHTYLGADMEEFHGRTLHDDSDSCQVIPVLPQVM
MILIPGQTLPLQLFHPQEVSMVRNLIQKDRTFVLAYSINVQEREAQFGTTAEIYAYREEQDFGIEIVKVKAIGRQ
RFKVLRLRTQSDGIQQAKVQILPECVLPSTMSAVQLES LNKCQIFPSKPVSREDQCSYKWWQKYQKRKFHCANLT
SWPRWLYSLYDAETLMDRIKKQLREW DENLKDDSLPSNPIDFSYRVAACLPIDDLRIQLLKIGSAIQRLRCELD
IMNKCTSLCCKQCQETEITTKNEIFSLSLCGPMELM

2351/2825
FIGURE 2074

AGTCG TAGGCGCTGGCCGCTGAC**ATG**TTGAGGACTACGCGCGGCCCAGGCCTGGGCCCCCGCTGCTCCAGGCCG
CGCTGGGCCTTGGGCGGGCTGGGTGGCACTGGCCTGCGGGCCGGGCGGCGAGCGGGGGCGCGGGCGGGCCTGGC
TGCAGCCACGGGCCGGGAGACGGGTGTGCAGGTGTACAACAGCCTCACCGGGAGGAAGGAACCCCTAATCGTGG
CGCAGCCGAAGCCGCTCCTGGTATAGCTGTGGACCAACTGTATATGATCATGCGCACCTTGGCCATGCTTGCT
CATATGTTAGATTTGATATCATTGGAAGGATCCTAACCAAGGTTTTTGGATGCAGCATAGTCATGGTGATGGGTA
TTACAGATGTAGATGATAAAATCATCAAAAGAGCCAATGAGATGAATATTTCCCCCGCTTCCCTCGCCAGTCTTT
ATGAGGAAGACTTCAAGCAGGACATGGCAGCCCTGAAGGTTCTCCACCCACGGTGTACCTGAGGGTAACCGAAA
ATATTCCTCAGATAATTTCTTTTCATTGAAGGAATCATTGCTCGTGGGAACGCTTATTCAACGGCAAAAAGGCAATG
TCTACTTCGATCTGAAGTCTAGAGGAGACAAGTATGGCAAATTGGTCGGCGTGGTCCCTGGTCCAGTCGGAGAGC
CAGCGGACTCTGACAAGCGTCATGCCAGTGACTTCGCCCTGTGGAAGGCGGCCAAACCCAGGAGGTGTTCTGGG
CCTCTCCCTGGGGACCCGGGAGGCCGGGCTGGCACATCGAGTGCTCTGCCATCGCTAGTATGGTATTTGGAAGTC
AACTGGATATCCATTGAGGTGGGATAGATTTAGCTTTTCCACATCATGAGAACGAAATTGCACAGTGCGAAGTCT
TTCATCAGTGCGAGCAGTGGGGAAATTATTTCTGCATTCTGGGCATTTGCACGCCAAAGGCAAAGAAGAAAAA
TGTCCAAATCATTAAAGAACTACATTACTATTAAGGACTTTCTGAAGACCTTTTCCCCGATGTCTTCCGGTTCT
TCTGCCTGCGGAGCAGCTACCGCTCAGCCATCGACTACAGTGACAGCGCCATGCTCCAAGCTCAGCAGCTGCTCC
TGGGGCTGGGCTCTTTCTGGAGGACGCACGTGCCTACATGAAGGGGAGCTGGCCTGCGGCTCCGTCAGGGAAG
CGATGCTGTGGGAGAGGCTCTCCAGCACCAAGAGGGCCGTGAAGGCGGCCTTGGCAGATGATTTTGACACACCCA
GGGTGGTTGATGCCATCCTGGGCCTTGACACACCACGGGAATGGACAGCTCAGGGCGTCCCTGAAGGAACCTGAAG
GGCCGAGAAGTCTGTGTGTTTGGTGCCATCATCTCTTACTTTGAACAGTTTTTTTGAACTGTTGGAATTTCTC
TGGCAAATCAACAGTACGTTTTAGGAGACGGCAGCGAGGCTACCTTGATGGTGTGGTGGACGAGCTGGTGCGGT
TCCGGCAGAAAGTCCGGCAGTTTTGCGCTGGCCATGCCCGAGGCCACGGGGGACGCCCCGGCGGCAGCAGCTCCTAG
AAAGGCAGCCCCCTGCTGGAAGCATGCGACACCCTGCGCCGGGGCCTGACTGCCACGGCATCAACATCAAGGACA
GAAGCAGTACAACATCCAGTGGGAAGTCTGGATCAAAGGACAAAAGACCAAAATCAGCGGGCT**GA**GGATGGA
GCACAGCCATGAACCTGCTCAGACAAGACGCACCCATGCTTCTCAGGGTCAAGGCTTTATGTTAAAGCTTCCTG
TCGGGGCTGCTAGGTCAGCATTAAAGTAAGGCAACCAACAGTG

2352/2825
FIGURE 2075

MLRTTRGPGGLGPPLLQAALGLGRAGWHWPAGRAASGGRGRAWLQPTGRETGVQVYNSLTGRKEPLIVAHAEAAASW
YSCGPTVYDHAHLGHACSYVRFDIIRRIILTKVFGCSIVMVMGITDVDDKIIKRANEMNISPASLASLYEEDFKQD
MAALKVLPPTVYLRVTENIPQIISFIEGI IARGNAYSTAKGNVYFDLKSREGDKYGKLVGVVPGPVGEPADSDKRH
ASDFALWKAAPQEVFWASPWGPGRPGWHIECSAIASMVFGSQLDIHSGGIDLAFFPHHENEIAQCEVFHQCEQWG
NYFLHSGHLHAKGKEEKMSKSLKNYITIKDFLKTFS PDVFRFFCLRSSYRSAIDYSDSAMLQAQQLLLGLGSFLE
DARAYMKGQLACGSVREAMLWERLSSTKRAVKAALADDFDTPRVVDAI LGLAHHGNGQLRASLKEPEGPRSPAVF
GAIISYFEQFFETVGISLANQQYVSGDGSEATLHGVVDELVRFRQKVRQFALAMPEATGDARRQQLLERQPLLEA
CDTLRRGLTAHGINIKDRSSTTSTWELLDQRTKDQKSAG

2353/2825
FIGURE 2076

CATTAACCTGCTGGATTACCTGCCGGAGATCCTGGATGGACTCTTCCAGATCCTGGGTGACAATGGCAAAGAGAT
TCGCAAAATGTGTGAGGTTGTTCTTGGAGAATTCTTAAAGAAATTAAGAAGAACCCCTCCAGTGTGAAGTTTGC
TGAGATGGCCAACATCCTGGTGATCCACTGCCAGACAACAGATGACCTCATCCAGCTGACAGCCATGTGCTGGAT
GCGGGAGTTTCATCCAGCTGGCGGGCCGCGTCATGCTGCCTTACTCCTCCGGGATCCTGACTGCTGTCTTGCCCTG
CTTGGCCTACGATGACCGCAAGAAAAGCATCAAAGAAGTGGCCAACGTGTGCAACCAGAGCCTGATGAAGCTGGT
CACCCCGAGGACGACGAGCTGGATGAGCTGAGACCTGGGCAGAGGCAGGCAGAGCCCACCCCTGACGATGCCCT
GCCAAAGCAGGAGGGCACAGCCAGTGGAGGTCCAGATGGTTCTGTGACTCCAGCTTCAGTAGCGGCATCAGTGT
CTTCACTGCAGCCAGCACTGAAAGAGCCCCAGTGACCCTTCACCTCGACGGGATCGTGCAGGTCTTAACTGCCA
CCTCAGTGACACGGCCATTGGGATGATGACCAGGATTGCAGTTCTCAAGTGGCTCTACCACCTCTACATCAAAAC
TCCTCGGAAGATGTTCCGGCACACGGACAGCCTCTTCCCATCCTACTGCAGACGTTATCGGATGAATCGGATGA
GGTGATCCTGAAGGACCTGGAGGTGCTGGCAGAAATCGCTTCCCTCCCGCAGGCCAGACGGATGACCCAGGCCC
CCTCGATGGCCCTGACCTCCAGGCCAGCCACTCAGAGCTCCAGGTGCCACCCCTGGCAGAGCCGGCCTACTGAA
CACCTCTGGTACCAAAGGCTTAGAATGTTCTCCTTCAACTCCCACCATGAATTCTTACTTTTATAAGTTTCATGAT
CAACCTTCTCAAGAGATTACAGCAGCGAACGGAAGCTCCTGGAGGTGAGAGGCCCTTTCATCATCAGGCAGCTGTG
CCTCCTGCTGAATGCGGAGAACATCTTCCACTCAATGGCAGACATCCTGCTGCGGGAGGAGGACCTCAAGTTCGC
CTCGACCATGGTCCACGCCCTCAACACCATCCTGCTGACCTCCACAGAGCTCTTCCAGCTAAGGAACCAGCTGAA
GGACCTGAAGACCCTGGAGAGCCAGAACCTGTTCTGCTGCCTGTACCGCTCCTGGTGCCACAACCCAGTCACCAC
GGTGTCCCTCTGCTTCCTCACCCAGAACTACCGGCACGCCTATGACCTCATCCAGAAGTTTGGGGACCTGGAGGT
CACCGTGGACTTCCTCGCAGAGGTGGACAAGCTGGTGCAGCTGATTGAGTGCCCCATCTTCACATATCTGCGCCT
GCAGCTGCTGGACGTGAAGAACAACCCCTACCTGATCAAGGCCCTCTACGGCCTGCTCATGCTCCTGCCGCAGAG
CAGCGCCTTCCAGCTGCTCTCGCACCGGCTCCAGTGCGTGCCCAACCCCTGAGCTGCTGCAGACCGAAGACAGTCT
AAAGGCAGCCCCCAAGTCCCAGAAAGCTGACTCCCCCTAGCATCGACTACGCAGAGCTGCTGCAGCACTTTGAGAA
GGTCCAGAACAAGCACCTGGAAGTGCGGCACCAGCGGAGCGGGCGTGGGGACCACCTGGACCGGAGGGTTGTCCT
CTGACAGGCCTGGCACGGAGGAGGGCCACCGAGTGGTCCCATGAAACACTAAGGGTCGTACGCCCTCCCAGG
AGCTCAAGGACCTGCCTGTGTCAGGACCAGGGCTGGGCCTGCCAACCCAGGGCAGTGTTGGGGCCGGAGGCTGCTGT
GTCTGCCCAAGCTCCTCTCAGAGTCCAGTCCCCAGGCCTCCAGCGCTGTCAGCTGCACCCTGGCATTCTCACAGA
GCTGGCTGCCACCCAGTGGGGGGCTATAGCCTCAGAGACCACTCATCCTCTGGAATCAACCTCTTTCTAATACC
CTCTTGAAAAAGAGCTTGCCCTCCTCCAGCACACTAGAGCTCTGGCCTTGTGTGTATATGTATACATACGTGA
ACACATGCCTGTGTGTGTGTGTGTGTGTGTACTTGTATGCACGTAGGCACCAGCACAAAGATCTGAATGATGC
ACCCACCCCCACCCAATAAAGAAATAACAGAAAACCTCAAAAAAAAAAAAAAAAAAAAA

2354/2825
FIGURE 2077

MANILVIHCQTDDLIQLTAMCWMREFIQLAGRVMLPYSSGILTAVLPCLAYDDRKKSIKEVANVCNQSLMKLVT
PEDDELDELPGQRQAEPTPDDALPKQEGTASGGPDGSCDSSFSSGISVFTAASTERAPVTLHLDGIVQVLNCHL
SDTAIGMMTRIAVLKWLYHLYIKTPRKMFRHTDSLFPILLQTLSDSEDEVILKDLEVLAEIASSPAGQTDDPGPL
DGPDLQASHSELQVPTPGRAGLLNTSGTKGLECSPSTPTMNSYFYKFMINLLKRFSSERKLEVRGPFIIIRQLCL
LLNAENIFHSMADILLREEDLKFASTMVHALNTILLTSTELFQLRNQLKDLKTLESQNLFCCLYRSWCHNPVTTV
SLCFLTQNYRHAYDLIQKFGDLEVTVDFLAEVDKLVQLIECPIFTYLRQLLDVKNNPYLIKALYGLLMLLPQSS
AFQLLSHRLQCVNPPELLQTEDSLKAAPKSQKADSPSIDYAELLQHFEKVQNKHLEVRHQRSRGDHLDRRVVL

2355/2825
FIGURE 2078

ATGGGGCCACGGGCCCCACCGCCGCCCGGGAGGACCGAGCCTAAGAGGGCAGCCGCCTGAAGGAACGCGACG
GCGGCGCCCGCAGTATTTTTTCAGTGCTGTACAAGCGTCTTGAATTACTCTGGTAGCTTTTCCAGAAAGACCC**ATG**

ACTTCACCACATTTCTCGAGTTACGATGAAGGTCCTCTGGATGTCAGCATGGCAGCCACAAACCTGGAGAACCAG
CTGCACAGCGCACAGAAGAACCTCCTGTTCCCTTCAGCGGGAGCATGCCAGCACGCTCAAGGGGCTGCACTCCGAG
ATCAGGCGGGCTGCAGCAGCACTGCACAGATTTAACATATGAGCTGACAGTCAAAAGTTCGGAACAGACAGGAGAC
GGGACTTCTAAAAGCAGTGAATTAAAGAAAAGATGTGAAGAGCTGGAAGCCCAACTGAAAGTAAAAGAGAACGAA
AATGCTGAGTTGTTGAAAGAACTGGAGCAGAAAAACGCGATGATCACAGTGCTGGAGAACACCATCAAGGAGCGA
GAGAAGAAGTACCTGGAGGAGCTGAAGGCCAAGAGTCACAAGCTGACCCTGCTGTCTAGCGAGCTGGAGCAGCGG
GCCAGCACCATCGCCTACCTGACCTCCAGCTGCACGCCGCCAAGAAGAAGCTCATGAGCTCCAGCGGGACCTCA
GATGCCAGCCCGTCAGGGAGCCCCGTGCTGGCCAGCTACAAGCCAGCGCCCCCAAAGACAAGCTACCCGAAACG
CCTCGCCGCCGCATGAAAAAGAGCCTCTCAGCCCCCTTGACCCCGGAATTTGAAGAGGTCTACAGATTCGGGGCA
GAGAGCAGGAACTCCTTTTGCGGGAACCAAGTGATGCTATGCCCGACCCACCCCATTTCTGCTGGCTAGGGAG
TCCGCCGAGGTCCACCTCATCAAAGAGAGGCCCTCGTCATCCCCCCCATCGCCTCCGACCGAAGCGGCAGCAG
CACAGCCCGGCCCGCGAAAAGCCGCACAAGGCCACGTCGGGGTGCCACATCGGATCCACCACGCCACCCCGCCG
CAGGCCCAGCCCGAGGTGAAGACCCTGGCGGTGACCCAGGTGAACGGAGGCAAGGTGGTGAGGAAGCACTCAGGG
ACGGACAGAACTGTG**TGA**AGCCCGCCGTGCCCCACCCCGCGCTGTCCATGCACTGTGAGCACCCTGGGAAATCT
CAGCCACACCTTTTCTGTTTAATCCCATGCATGCCAAACACTTTTACACCTACCGACCCATTCTCCTTCTGCTT
CTCTTGCCCTCTTCTTACACCAAATATGATCGTGTCCCTGCCGCAGAATATGTATTTCTAATTGCTGTGGCC
AAGCGCCTGTGTGCCGAATCGCTTGCTTCTGATCCCGCTCCGTGTAACCTAAGTGCGCTGCAGGCAAAGCCCAGG
CCACGGCTGCGTCACTACTGATGTTACGATGCCACACAGTCACACACCTAATTCATTCTCAAGTCGGAGCAACA
CATACCAACCTTGACCTTATCCTCAAGCTCCAGGGCAGCCTGGCCGAGCAGCCCCTGCTCCCTCCTGGAGACCCT
TGTCACCTCCCGAGCTCCTCCTGGAGACCCCTGTACCTCCTGACCAACCTTTCCAGGGCGGCACCGATCACCG
AGCAGCCGTGCGTGTATCTCAAGGAATAAATAAGATGACGCTACTCCTCATAGCACCACAACCTGAATGTGTGT
TCATATTTTTTTGTTAGTTTTATCCAAATGTTTAAGATCCCAACAACTTTATTTTCTAAACCTGCCAAAAAAA
AAAAAAAAAAAAAAAA

2356/2825

FIGURE 2079

MTSPHFSSYDEGPLDVSMAATNLENQLHSAQKNLLFLQREHASTLKGLHSEIRRLQQHCTDLTYELTVKSSEQTG
DGTSKSSELKKRCEELEAQLKVKENENAELLKELEQKNAMITVLENTIKEREKKYLEELKAKSHKLTLLSSELEQ
RASTIAYLTSQLHAAKKKLMSSSGTSDASPSGSPVLASYKPAPPKDKLPETPRRRMKKSLSAPLHPEFEEVYRFG
AESRKLLLREPVDAMPDPTPFLLARESAEVHLIKERPLVIPPIASDRSGEQHSPAREKPHKAHVGVAHRIHHATP
PQAQPEVKTLAVDQVNGGKVVRKHSGTDRTV

2357/2825
FIGURE 2080

GGGGCGACGTTT TAGCGACTATTGCGCCTGCGCCAGCGCCGGCTGCGAGACTGGGGCCGTGGCTGCTGGTCCCGGG
TGATGCTAGGCGGGCTCCCTGGGCTCCAGGCTGTTGCGGGGTGTAGGTGGGAGTCACGGACGGTT CGGGGCCCCGAG
GTGTCCCGCAAGGTGGCGCAGCCATGGCGGCAGGGGAGAGCATGGCTCAGCGGATGGTCTGGGTGGACCTGGAGA
TGACAGGATTGGACATTGAGAAGGACCAGATTATTGAGATGGCCTGTCTGATAACTGACTCTGATCTCAACATTT
TGGCTGAAGGTCCTAACCTGATTATAAAACAACCAGATGAGTTGCTGGACAGCATGTCAGATTGGTGTAAAGAGC
ATCACGGGAGGTCTGGCCTTACCAAGGCAGTGAAGGAGAGTACAATTACATTGCAGCAGGCAGAGTATGAATTC
TGTCCTTTGTACGACAGCAGACTCCTCCAGGGCTCTGTCCACTTGCAGGAAATTCAGTTCATGAAGATAAGAAGT
TTCTTGACAAATACATGCCCCAGTTCATGAAACATCTTCATTATAGAATAATTGATGTGAGCACTGTTAAAGAAC
TGTGCAGACGCTGGTATCCAGAAGAATATGAATTTGCACCAAAGAAGGCTGCTTCTCATAGGGCACTTGATGACA
TTAGTGAAAGCATCAAAGAGCTTCAGTTTTACCGAAATAACATCTTCAAGAAAAAATAGATGAAAAGAAGAGGA
AAATTATAGAAAATGGGGAAAATGAGAAGACCGTGAGTTGATGCCAGTTATCATGCTGCCACTACATCGTTATCT
GGAGGCAACTTCTGGTGGTTTTTTTTTCTCACGCTGATGGCTTGGCAGAGCACCTTCGGTTAACTTGCACTCTCCA
GATTGATTACTCAAGCAGACAGCACACGAAATACTATTTTTCTCCTAATATGCTGTTTCCATTATGACACAGCAG
CTCCTTTGTAAGTACCAGGTCATGTCCATCCCTTGGTACATATATGCATTTGCTTTTAAACCATTTCTTTTGTTT
AAATAAAATAAATAAGTAAATAAAGCTAGTTCTATTGAAATGCAAAAAAAAAAAAAAAAAAAAAA

2358/2825
FIGURE 2081

MLGGSLSRLLRGVGGSHGRFGARGVREGGAAMAAGESMAQRMVWVDLEMTGLDIEKDQIIEMACLITDSDLNIL
AEGPNLI IKQPDELLDSMSDWCKEHHGRSGLTKAVKESTITLQQA EYEF LSFVRQQTPFGLCPLAGNSVHEDKKF
LDK YMPQFMKHLHYRIIDVSTVKELCRRWYPEEYEFAPKKAASHRALDDISESIKELQFYRNNIFKKKIDEKKRK
IIENGENEKTVS

2359/2825
FIGURE 2082

ATTCCTTAATCTATTTAATCACACCCTGACCTGCTTTGAACATAACCTTCAGGGGA**ATG**CACATAGTCTTTTAC
AGACAAAAAATTATTCAGAAGTATGCAAAAACTGCCGTGAAGCATACAAACTCTGAGTAGTCTGTACAGTGAA
ATGCAAAAAATGAATGAACCTTGAGAATAAGGCTGAACCTGGAACACATTTATGCATTGATGTGGAAAGATGCAATG
AACATCACTCGAAAACTATGGAGTCGAACTTTCAACTGTTTCAGTCCCTTGAGTGACACAGTGCCGTGTAATTGCT
GTTTCTGTGTTCAATTCCTCTTTCTACCTGTTGCTTCTACCTTAGTAGCTTTCTTCACTCAGAGCAAAAAGAAACGC
AAACTCATTCTGCCCAAACGTCTCAAGTCCAGTACCAGTTTTGCAAATATTCAGGAAAATTCAAAC**TGAG**ACCTA
CAAAATGGAGAATTGACATATCACGTGAATGAATGGTGGAAAGACACAACCTTGGTTTCAGAAAGAAGATAAACTGT
GATTGACAAGTCAAGCTCTTAAGAAATACAAGGACTTCAGATCCATTTTTAAATAAGAATTTTCGATTTTTCTT
TCCTTTTCCACTTCTTTCTAACAGATTTGGATATTTTTAATTTCCAGGCATAGCAATGTTATCTATTTTAATGTG
TATTTGTGACAATAACAGAACATGCAAGAACAATCATTATTTTATTTTATAGGCATTTGATTACTATTCTAGACT
TCTGGTATCTTCTTACTAACATAAATATCTCAAGTAGAAAAGTTTTTGAAAATAACATTTAAAAATTAATCAGT
TACAGTAAAGACTTTGAAAAGAAATGTACTTGTAGGAAGTAGCTTAATTACCCCCCATTGCAGTATTATTGTT
ATATATATAGTTAATATGTTGTACATCACAATAATATATAATTCAGTCTCTAGTTTCCCTAGAGTCATTTTTGAA
ACCACTGATTGCAAACCTCCCTGACAATTTTTAAAAGTAGTAAGCCACATTACATTTATCTTTGTAAAAAGATTT
ATGGTAACTGGTTTCTTACTTGACTTTTATAAATAGTATTTTACATCTTATTTTTGCCTTTATTTTCATAAGTAAT
TTAAAAATCACTGGATTGCTTTATTATATTCAGGGCAATATGGATTATTTTTTATACCAAGGATTTGCATCGTGAA
TTACATTAAGTTATTTGGCAATTTATAATTTATTACTACTTTAAATCAAATGTAGCATTATCACACTGTATTTAA
ATTGTCATTTTTTTAAAGGAATATTTTCTTCTTAAGATATATAGAGGATTTTGAGAGAAGAGAGACAGGAGGGGTAA
AACCAGCTTAAGGTTTCAGCGAGCAGAAAGGGACCTGAGAGGATGCTCACTGTAAGACTGTTGGACAGTGGTGTGT
ATTGAGGGGATGAATCGGAACGATAGTCTCATGCAGAAAATAGTGAGATTAAGATCATCCTTATTGTTTCTAAAT
TATTTCAATCAGATGAAAGTGATACGATTGAAATGAAATCACATAGTTCGTGCTCAGAAATTCTATTTTGGTATG
TTTGTATTAGCCTTTAGAAAAACACTCCGTTTCAGAATTGTTTCACAGTTTTATTTCTTAGGTTTTTAGAGTTCA
GGATTTCATTTATTAATTTCTTCTTGCTTTTTTGGTGGAATAGGCTTTGTTGTAAACATTAAGAATATAAAATC
TCCTCTATATAGAAACAAGAATTTTGTAAAAAGAGAATTTGAATCCCTTCCTATACTATAAAATGCTCTATAGG
GAGACAAAAGTGTTTCTTTTTCTTTTATGTTTACTGTTTATGTGGAGTGAAATATAAGGCTCTTGGATGTATAAC
ATACTCAAAAAGCTGTTACACTTTCTCTGATCTGCTGTGATCCACTGAAAATGTGCTGGGGTTTGTCTGCTGTCA
CTGTTTATGCTGCTGGAACCTTAGCACTGTCTTGATTGGAAGCATATGATTGAGAGCCATTTGAAGCAATCTTCAT
TAATGCAGATAAAAACAAGTTTACATGTGCAGAGTTAGAAAATGACATGTTCAATTCTGTAAGTGGTGACTTTTTG
AGCACCTTTCAGTATTATGTATTTGTAAAAACCATTGT,TTTTGGATATAAAGCTAATAAGCACTTTAAAAAGGAA
AAGGCAGCCTTTACTATTTTTTCTGGTTGAGTCATTGCTCTTTAGACCTAGCATCAGCAATAGATTTCAAAGATA
AGTATTAAGCGCTACCCTAAAGTGTGTAAGTTTTTCATTTTGTATATTGAAAAATGATTTGCATAGTACTGAAT
GTTGACACACAGCTTATATGTATTTACAAGAATATCTTTAAGTGTTTTTTTGACACATTAAATAAAGGAAATAA
GGAAATTGTAA

2360/2825
FIGURE 2083

MHIVFYRQKIIQKYAKNCREAYKTLSSLYSEMQKMNELENKAEPGTHLCIDVEDAMNITRKLWSRTFNCSVPCSD
TVPVIAVSVFILFLPVVFYLSFLHSEQKKRKLILPKRLKSSTSFANIQENS

2361/2825
FIGURE 2084

GCTGGCGGGGCCCCGGACAGAAG**ATGG**TGCAGAAGAAACCAGCCGAAC TTCAGGGTTTCCACCGTTCGTTCAAGGG
GCAGAAACCCCTTCGAGCTGGCCTTCTCCCTAGACCAGCCCGACCACGGAGACTCTGACTTTGGCCTGCAGTGCTC
AGCCCGCCCTGACATGCCCGCCAGCCAGCCCATTTGACATCCCGGACGCCAAGAAGAGGGGCAAGAAGAAGAAGCG
CGGCCGGGCCACCGACAGCTTCTCGGGCAGGTTTGAAGACGTCTACCAGCTGCAGGAAGATGTGCTGGGGGAGGG
CGCTCATGCCCGAGTGCAGACCTGCATCAACCTGATCACCAGCCAGGAGTACGCCGTCAAGATCATTGAGAAGCA
GCCAGGCCACATTTCGGAGCAGGGTTTTTCAGGGAGGTGGAGATGCTGTACCAGTGCCAGGGACACAGGAACGTCCT
AGAGCTGATTGAGTTCTTCGAGGAGGAGGACCGCTTCTACCTGGTGTGTTGAGAAGATGCGGGGAGGCTCCATCCT
GAGCCACATCCACAAGCGCCGGCACTTCAACGAGCTGGAGGCCAGCGTGGTGGTGCAGGACGTGGCCAGCGCCTT
GGACTTTCTGCATAACAAAGGCATCGCCACAGGGACCTAAAGCCGGAAAACATCCTCTGTGAGCACCCCAACCA
GGTCTCCCCCGTGAAGATCTGTGACTTCGACCTGGGCAGCGGCATCAAACCTCAACGGGGACTGCTCCCCCTATCTC
CACCCCGGAGCTGCTCACTCCGTGCGGCTCGGCGGAGTACATGGCCCCGGAGTTAGTGGAGGCCTTCAGCGAGGA
GGCTAGCATCTACGACAAGCGCTGCGACCTGTGGAGCCTGGGCGTCATCTTGTATATCCTACTCAGCGGCTACCC
GCCCTTCGTGGGCCGCTGTGGCAGCGACTGCGGCTGGGACCGCGGCGAGGCCTGCCCTGCCTGCCAGAACATGCT
GTTTGAGAGCATCCAGGAGGGCAAGTACGAGTTCCCCGACAAGGACTGGGCCCACATCTCCTGCGCTGCCAAAGA
CCTCATCTCCAAGCTGCTGGTCCGTGACGCCAAGCAGAGGCTGAGTGCCGCCAAGTCCTGCAACACCCCTGGGT
TCAGGGGTGCGCCCCGGAGAACACCTTGCCCACTCCCATGGTCCTGCAGAGGTGGGACAGTCACTTCCTCCTCCC
TCCCCACCCCTGTCGCATCCACGTGCGACCTGGAGGACTGGTCAGAACCGTTACTGTGAATGAG**TGA**AAGATCCTG
GAGGACCCCTGGCCCCAGGCCAGCTCCCATCGCTGGGGGACGGTGAACGGCCATGTGTAAATGTTACGATGTTTTT
AAAAGACAAAAAAAAAAAAAAAAACCTCAAAAGTTTTTTTAAAGTGGGGGAAAAACATCCAAGCACTTTAATTCCA
ATGTACCAGGTGAAGTACGGAGCTCAGAAAGTTTTCTTTACACCAACTGTCAATGCCGGAATTTTGTATTCTGT
TTTGTAAGATTTAATAAAAGTCAAAAAACTTGCAAAAAAAAAAAAAA

2362/2825
FIGURE 2085

MVQKKPAELQGFHRSFKGQNPFEAFSLDQPDHGDSDFGLQCSARPDMPASQPIDIPDAKKRGKKKKRGRATDSF
SGRFEDVYQLQEDVLGEGAHARVQTCINLITSQEYAVKIIEKQPGHIRSRVFREVEMLYQCQGHRNVLELIEFFE
EEDRFYLVFEKMRGGSILSHIHKRRHFNELEASVVVQDVASALDFLHNKGIAHRDLKPENILCEHPNQVSPVKIC
DFDLGSGIKLNGDCSPISTPELLTPCGSAEYMAPELVEAFSEEASIYDKRCDLWSLGVILYILLSGYPFFVGRCG
SDCGWDRGEACPACQNMLFESIQEGKYEFDPKDWAHISCAAKDLISKLLVRDAKQRLSAAQVLQHPWVQGCAPEN
TLPTPMVLQRWDSHFLLPPHPCRIVRPGGLVRTVTVNE

2363/2825
FIGURE 2086

CTCTCCGAGAACTCTTGTGCTCAGCTCACGGCAGCAAGGACGGACTCGTTGTGAAGGCGCCACACACTTTTATGACC
ACCTCTTTCCCAGATTATTCGTTTTGATGAAGCTAAAAATTTTAATCTAAAAAGAAATGCACCTCATGGAGAATTC
TTGTGAAGAACTGTGCTTCATCTGTGGATTTCTACACCCCTTGATCATTGCAAACCTGTAATTATTTTCGTAAAGG
CGGGATGGTGCCGCTGTGCCAGGTTGAAGTATTGTATTTTGCAAAAAGTGCTGAAATAACAGGAGTTTCGTTTCAGA
GACCATTTCTGTGCCTCAAGAAATAAAAGCGTTGCAGCTGTGGAAGGAGATAGAACTCGACATCCTGGATTGGC
TGATGTTAGAAATCAGATAATATTTGCTGTTCGTCAAGAATATGTCGAGCTTGGAGATCAGCTCCTCGTGCTTCA
GCCTGGAGACGAAATTGCCGTTATCCCCCCCATTAGTGGAGGATAGTGCTTTTGAGCCATCTAGGAAAGATATGG
ATGAAGTTGAAGAGAAATCTAAAGATGTTATAAACTTTACTGCCGAGAACTTTTCAGTAGATGAAGTCTCACAGT
TGGTGATTTCTCCGCTCTGTGGTGCAATATCCCTATTTGTAGGGACTACAAGAAATAACTTTGAAGGGAAAAAAG
TCATTAGCTTAGAATATGAAGCATATCTACCCATGGCGGAAAATGAAGTCAGAAAGATTTGTAGTGACATTAGGC
AGAAATGGCCAGTCAAACACATAGCAGTGTTCCATAGACTTGGCTTGGTTCCAGTGTGAGAAGCAAGCATAATCA
TTGCTGTGTCTCAGCCACAGAGCTGCATCTCTTGAAGCTGTGAGCTATGCCATTGATACTTTAAAAGCCAAGG
TGCCCATATGGAAAAAGGAAATATACGAAGAGTCATCAACTTGGAAGGAAACAAAGAGTGCTTTTGGGCATCCA
ACAGTTAACTCACTTATGTTTTTAGAGCATGCAATCTTAACCTTTGTTAACTATTATTATTGATCACATTTTGATT
TTTTTCTCTCCACATCAGGATAGTTTACTGAAGCACAACTCTTTATACTAGTGGGACAAAAGGGAGAAAAAGGAA
GCAAGATAAATGGGTATGTAGGATGAAGGGTTATTTAAAATGGAAGTAAAGATAGAAGGAGGACTGTAGGAAGAA
ATGGAATAATTTAAATGTGAGGAAAGATATCTGTGGTAGACATGTCCTTCCATGACTAATTTCTAATTGTAACCTC
AACACACATTGAGGTATGGGCCCTCCTCAGTGACTTTAACTAGCTCAGAAACGTACTCCCCACCAACCCACCT
CACCGCCCCCATCCCGTTCTGGGAGAGCATTGTTATTAAGGATGCATGACAGGAATGTTGGCAGAACTGGAAA
GTATTAAAAAAGCATTATCAGACAGTCTTGATATTATACATTTTCAGAAATATATTAAAAATAATAAACTAAAC
CCATGATTTCAAAGTTTAAAAA

2364/2825
FIGURE 2087

MSSLEISSSCFSLETKLPLSPPLVEDSAFEPSPRKDMDEVEEKSKDVINF
TAEKLSVDEVSQLVISPLCGAISLFV
GTTRNNFEGKKVISLEYEAYLPMAENEVRKICSDIRQKWPVKHIAVFHRLGLVPVSEASIIIAVSSAHRAASLEA
VSYAIDTLKAKVPIWKKEIYEESSTWKGNECFWASNS

2365/2825
FIGURE 2088

CCAGGCGCTGCGCGGCTGCTCTGGCGTCCAGTCCTACCCGCAACCCGCCGCGACGTTACTGCTCCTCTGCTGCCT
TCGTTTCTGGTCCTCGGCCGTCTCGCCGCCCGCCAGAGGAGTCCCCGCGCCCCGCCAAGAAGCCGCTTTCCGCT
GGCCCGCAGCCGCCGCGACTTCGGCACAGTTTCTCCCTCTGGCTAGTCTCCCAAACGGCCGCTCCTCGCCCGCGG
GAAGACCAGGCTGCGACCGCGAACGCCCCGATCCTCTCCAGGAGCCGCGAGCGAGCGCCCCGGCGGCCACGCCCCGCG
ACACACCCCGGCGGCTCTCGGCCAGCGCGCCTGCCTTCGCCGCCCGCGTCTGCTCCTCGCCCGCTGCACGACGAC
GCGACGCCCTGCTGCAGGCGGCGGACCCGACCGACCCAGACCCAGACGCAAGATGGCGACGGCCGCGTGA CTG
CCTCAGCGTCCCCGAGCTCGGCTCCGAGTGACCTACGGACTGACTGTGGGGGCAGAGAAGGGCGAGATCAGGAC
TCTGTCTTTGTTAATCGTGA CTGTCATGAAGGTCGCTCCCTCGGGCCTACTTGGTGGGAGTGTCTGGTATTGTTT
TAAGGCCAGGAGCACGGTGAGCCACAGTCTGTTGGTAGAATTTGGCGTCTTGATAGTTGAGAAAATGCGGATGAC
ACTGTTGGAAGACTGGTGC CGGGGGATGGATGTGA ACTCCCAGAGAXCTCTGTTAGTCTGGGGCATCCCAGTGAA
CTGTGATGAGGCTGAAATCGAAGAGACCTCCAGGCTGCGATGCCCCAGGTCTCCTACCGAATGCTTGGGAGAAT
GTTCTGGAGGGAAGAAAATGCGAAAGCAGCCTTATTAGAGCTCACTGGCGCTGTAGATTACGCCGCGATCCCCAG
GGAGATGCCGGGCAAAGGAGGGGTCTGGAAAGTGTTATTTAAGCCCCCAACTTCTGATGCTGAATTTTTAGAAAG
ATTGCACCTCTTCCTAGCTAGAGAGGGGTGGACCGTGCAAGATGTTGCCCGTGTCTTGGGTTTCAGAACCCCTAC
TCCGACCCCGGGCCCAGAGATGCCAGCAGAGATGCTAAACTATATTTTGATAATGTTATTACAGCCTCTTGTTGA
GTCCATATGGTACAAGAGGCTGACACTTTTCTCGGGGAGGGACATCCCAGGGCCTGGAGAGGAAACCTTTGATCC
CTGGCTGGAGCACACTAATGAGGTCCTAGAGGAGTGCGAGGTGTCCGATGTAGAAAAGAGGCGGCGGTTGATGGA
GAGTCTTAGAGGCCCGCCGCTGATGTTATTGCGATCCTTAAGTCCAACAACCCGCGATAACCACTGCCGAATG
CCTGAAGGCGCTTGAGCAGGTGTTTGGGAGCGTTGAGAGCTCTAGGGATGCCAGATCAAATTTCTGAACACTTA
TCAGAACCCGGGAGAAAAATTGTCTGCTTATGTCATTCTGCTGGAGCCTCTGCTACAGAAGGTGGTAGAGAAGGG
GGCCATTGATAAAGATAATGTGAACCAGGCCCGCTAGAGCAGGTCA TTGCCGGGGCCAACCACAGCGGGGCCAT
CCGAAGGCAGCTGTGGCTTACCGGGGCTGGGGAAGGGCCAGCCCCAAACCTCTTTCAGTTGCTGGTGCAGATCCG
TGAGGAGGAAGCCAAGGAGGAGGAGGAGGAGGCTGAGGCCACCCTTCTGCAGTTAGGCCTGGAAGGGCACTTCTG
AGTGCCAGGAAAGGCAGCTTTAGTGACAGCTAGATCACAGCTACTTTTCTTGCTCCCTGTGGGGTCTTACAGATG
TGTCTCTGAGTAGTAAAGGCTTAGCCTTGTCTGTTTTGTTGTTTTTTGGAGGGGAAGGTTAGTCAGGCCTGAGT
ATTCATGTAACATTCTAAAATTGTGCCAGCGAGCACCGTGAACGACTGCAATGCAAGCGGGTCTTGCTGGCTAAA
ATGCCCAGGTAAAGGGTTGGTTGGACACAGCGCTTAGTGACGCTGTCATCATGGACATCATAATCAGTTGTGAA
AAACACGCGAACCTATGACACTTCTTATTCCACACTGAATGTGAAATTGCATGTTTCAGATGTTTACTACGAGGC
CTGGCTCACAGGAAGTGTTTCAGTAAAAGTATGCACTGTTAGATTACTGATAACGCGGATAGATTTTTGTTTACCA
TAAATTGTTCCAGATTTATATTAATGGAAGGAAGTGTGCATTTATTAGCTATTACTCAACTTTACAATGCAACA
TCTTATTTCTCATCTTTAAACATGTCGACCAGTTTAATTGAAAAGTATTCTGAGACTGCAAAATGGGGTGTAAA
AAATACTGCAGTTACGGAGCTGTGTAAACCAGTTTCTCATGTCATAAGATACAGATGTAAATTGCATGGAGAGGT
TGATATGCACCTGTACAGTAATTCCTCCCCATTTCACTTCTTTGTCAGAGAATAGTTCTTGTTTCATACTGAGT
GTTCTAAATTTGAAGTTATATATACAAATTAAAATATTTTAAAAAAAAAAAAAAG

2366/2825
FIGURE 2089

MAMTILLEDWCRGMDVNSQRXLLVWGIPVNCDEAEIEETLQAAMPQVSYRMLGRMFWREENAKAALLELTGAVDYA
AIPREMPGKGGVWKVLFKPPTSDAEFLERLHLFLAREGWTVDVARVLGFQNPTPTPGPEMPAEMLNYYILDNVIQ
PLVESIWYKRLTLFSGRDIPGPGEETFDPWLEHTNEVLEEWQVSDVEKRRRLMESLRGPAADVIRILKSNNPAIT
TAECLKALEQVFGSVESRDAQIKFLNTYQNPGEKLSAYVIRLEPLLQKVVEKGAIDKDNVNQARLEQVIAGANH
SGAIRRQLWLTGAGEGPAPNLFQLLVQIREEEAKEEEEEAEATLLQLGLEGHF

2367/2825
FIGURE 2090

CTCCCAAGATGTCGTTCCCAAAGTATAAGCCGTCGAGCCTGCGCACTCTGCCTGAGACCCTCGACCCAGCCGAAT
ACAACATATCTCCGGAAACCCGGCGGGCGCAAGCCGAGCGGTTGGCCATAAGAGCCCAGCTGAAACGAGAGTACC
TGCTTCAGTACAACGATCCCAACCGCCGAGGGCTCATCGAAAAATCCTGCCTTGCTTCGTTGGGCCTATGCAAGAA
CAATAAATGTCTATCCTAATTTAGACCCACTCCTAAAACTCACTCATGGGAGCTCTGTGTGGATTGTTGGGCCCC
TCATCTTCATTTATTATATTATCAAACTGAGAGGGATAGGAAAGAAAACTTATCCAGGAAGGAAAAATTGGATC
GAACATTTACCTCTCATATTAAGTCTGGCAATGATGACTATATGTATTCCTGCCTAAATAAATCATCTATTAAT
CATTAAAAAAAAAA

2368/2825
FIGURE 2091

MSFPKYKPSSLRTLPE TLDP AEYNISPETRRQAERLAIRAQLKREYLLQYNDPNRRGLIENPALLRWAYARTIN
VYPNFRPTPKNSLMGALCGFGPLIFIYYIIKTERDRKEKLIQEGKLDRTFHLSY

2369/2825
FIGURE 2092

GGCAGAGGCATC**ATG**GAGGGTCCCCGGGGATGGCTGGTGCTCTGTGTGCTGGCCATATCGCTGGCCTCTATGGTG
ACCGAGGACTTGTGCCGAGCACCAGACGGGAAGAAAGGGGAGGCAGGAAGACCTGGCAGACGGGGGCGGCCAGGC
CTCAAGGGGGAGCAAGGGGAGCCGGGGGCCCCCTGGCATCCGGACAGGCATCCAAGGCCTTAAAGGAGACCAGGGG
GAACCTGGGGCCCTCTGGAACCCCGGCAAGGTGGGCTACCCAGGGGCCAGCGGCCCCCTCGGGGGCCCGTGGCATC
CCGGGAATTAAAGGCACCAAGGGCAGCCCAGGAAACATCAAGGACCAGCCGAGGCCAGCCTTCTCCGCCATTTCGG
CGGAACCCCCCAATGGGGGGCAACGTGGTTCATCTTCGACACGGTCATCACCAACCAGGAAGAACCGTACCAGAAC
CACTCCGGCCGATTTCGTCTGCACTGTACCCGGCTACTACTACTTCACCTTCCAGGTGCTGTCCCAGTGGGAAATC
TGCTGTCCATCGTCTCCTCCTCAAGGGGGCCAGGTCCGACGCTCCCTGGGCTTCTGTGACACCACCAACAAGGGG
CTCTTCCAGGTGGTGTGTCAGGGGGCATGGTGCTTCAGCTGCAGCAGGGTGACCAGGTCTGGGTTGAAAAAGACCCC
AAAAAGGGTCACATTTACCAGGGCTCTGAGGCCGACAGCGTCTTCAGCGGCTTCCTCATCTTCCCATCTGCC**TGA**

GCCAGGGAAGGACCCCTCCCCACCCACCTCTCTGGCTTCCATGCTCCGCCTGTAAAATGGGGGCGCTATTGCT
TCAGCTGCTGAAGGGAGGGGGCTGGCTCTGAGAGCCCCAGGACTGGCTGCCCCGTGACACATGCTCTAAGAAGCT
CGTTTCTTAGACCTCTTCCTGGAATAAACATCTGTGTCTGTGTCTGCTGAAAAAAAAAAAAAAAAAAAA

2370/2825
FIGURE 2093

MEGPRGWLVLCLVLAISLASMVTEDLCRAPDGKKGEAGRPGRGRPGLKGEQGEPEGAPGIRTGIQGLKGDQGEPPG
SGNPGKVGYPPGPGPLGARGIPGIKGTGSPGNIKDQPRPAFSAIRRNPPMGGNVVIFDTVITNQEEPYNHSGR
FVCTVPGYYYFTFQVLSQWEICLSIVSSSRGQVRRSLGFCDTTNKGLFQVVS GGMVLQLQQGDQVWVEKDPKKGH
IYQGSEADSVFSGFLIFPSA

2371/2825
FIGURE 2094

GGCTGCGAGAAGACGACAGAAGGGGGAAGGGGCTGATGCGAACTGGGGCCACGGTAGCCATCGCGCTTTGCAGTT
CGGTCTCCTGGTGTACGGCCAACGCCAAGTAGGGGATTGCGTTCCCTCCAGTCGCAGACCCTATCAGATTTGGAT
ATGTCCCTTCATATTTGATTGGATTTACAGTGGTTTCAGCAGTGTGCTACAGTTTTTAGGATTATATAAGAAAAC
GGTAAACTGGTATTTCTTGGATTGGATAATGCAGGAAAAACAACATTGCTACACATGCTAAAAGATGACAGACTT
GGACAACATGTCCCAACATTACATCCCACTTCCGAAGAACTGACCATTGCTGGCATGACGTTTACAACTTTGGAT
CTGGGTGGACATGTTCAAGCTCGAAGAGTGTGGAAAACTACCTTCCTGCTATCAATGGCATTGTATTTCTGGTG
GATTGTGCAGACCACGAAAGGCTGTTAGAGTCAAAAGAAGAAGCTTGATTCACTAATGACAGATGAAACCAATTGCT
AATGTGCCTATACTGATTCTTGGGAATAAGATCGACAGACCTGAAGCCATCAGTGAAGAGAGGTTGCGAGAGATG
TTTGGTTTATATGGTCAGACAACAGGAAAGGGGAGTATATCTCTGAAAGAACTGAATGCCCGACCCCTAGAAGTT
TTCATGTGTAGTGTGCTCAAAAGACAAGGTTACGGAGAAGGCTTCCGCTGGATGGCACAGTACATTGATTTAACCAC
AAACTCACATTGGTTCCAGGTCTCAACGTTCAAGGCTTACTCAGAGATTTGATTGCTCAACATGCATAACTTGAAT
TCAATAGACTTTTGTGTTTATAAAACAGATGTTTTTTAGATTATTAATATTAAATCAACTTAATTGAATGAGA
ATTGAAAACCTGATTCAAGTAAGTTTGGAGTATCACAATGTTAGCTTTCTAATTCCATAAAAGTACTTGGTTTTTAC
AGTTTATAATCTGACATCACCCAGCGCCATTTGTAAAGAGCAACTTCCAGCAGTACATTTGAAGCACTTTTTTA
ACAACATGAAACTATAAACCATATTTAAAAGCTCATCATGTTAAATTTTTTATGTACTTTTCTGGAAGTAGTTTT
TAAATTTTAGATTATATGTCCACCTATCTTAAGTGTACAGTTAATAATTAGCTTATTCAATGATTGCATGATGCC
TTACAGTTTTCAATAACTTTTTTTCTTATGCAAACGTCATGCAATAAAACAACTCTAATGTTTGGCAAAAAAAA
AAAAA

2372/2825
FIGURE 2095

MSFIFDWIYSGFSSVLQFLGLYKKTGKLVFLGLDNAGKTTLLHMLKDDRLGQHVPTLHPTSEELTIAGMTFTTFD
LGGHVQARRVWKNYLPAINGIVFLVDCADHERLLESKEELDSLMTDETIANVPILILGNKIDRPEAISEERLREM
FGLYGQTTGKGSISLKELNARPLEVFMCSVLKRQGYGEGFRWMAQYID

2373/2825
FIGURE 2096

CACGGGGCTGCGTGGAAGAGCGCCGAGCGGTGGCGTCTGTCGCCCCCTCCTCGTCGGGAAGAAATCGTTTGGT
CTCCTGCCGTGCCCCGGCCGGTGCTGCTGCTGCTGCTGCTGCCCCGCGCGGGTTGTGGATGTTGTCGGCTCCGTGTT
GTGATGACAGGAGAATGTGTGTGTGTCCCGGGCCCCAGACGAATTGGAATCCCAGTCAGAAGTTCCAGCCTGCCAC
TGTTCTCTGATGCCATGCCAGCACCAACTCAACTGTTTTTTCCTCTCATCCGTAAGTGTGAAGTGGAGCAGGATCT
ATGGCACTGCATGTTACTGCCACCACAAACATCTCTGTTGTTTCCTCATCGTACATTCTCAGAGTCGACTGAGAT
ACACACCTCATCCAGCATATGCTACCTTTTGCAGGCCAAAGGAGAAGTGGTGGCAGTACACCCAAGGAAGGAGAT
ATGCTTCCACACCACAGAAATTTTACCTCACACCTCCACAAGTCAATAGCATCCTTAAAGCTAATGAATACAGTT
TCAAAGTGCCAGAATTTGACGGCAAAATGTCAGTTCTATCCTTGATTTGACAGCAATCAAGCTGCCTGCAAATG
CACCCATTGAGGACCGGAGAAGTGCAGCAACCTGCTTGCAGACCAGAGGGATGCTTTTGGGGGTTTTTGATGGCC
ATGCAGGTTGTGCTTGGTCCCAGGCAGTCAGTGAAAGACTCTTTTATTATATTGCTGGCTCTTTGGTACCCCATG
AGACTTTGCTAGAGATTGAAAATGCAGTGGAGAGCGGCCGGGCAGTGTACCCATTCTCCAGTGGCACAAGCACC
CCAATGATTACTTTAGTAAGGAGGCATCCAAATTGTACTTTAACAGCTTGAGGACTTACTGGCAAGAGCTTATAG
ACCTCAACACTGGTGAGTCGACTGATATTGATGTTAAGGAGGCTCTAATTAATGCCTTCAAGAGGCTTGATAATG
ACATCTCCTTGAGGGCGCAAGTTGGTGATCCTAATTCTTTTCTCAACTACCTGGTGCTTCGAGTGGCATTCTTCTG
GAGCCACTGCTTGTGTGGCCCATGTGGATGGTGTGACCTTCATGTGGCCAATACTGGCGATAGCAGAGCCATGC
TGGGTGTGCAGGAAGAGGACGGCTCATGGTCAGCAGTCACGCTGTCTAATGACCACAATGCTCAAAATGAAAAGAG
AACTAGAACGGCTGAAATTGGAACATCCAAAGAGTGAGGCCAAGAGTGTGCTGAAACAGGATCGGCTGCTTGGCT
TGCTGATGCCATTTAGGGCATTGAGATGTAAAGTTCAAATGGAGCATTGACCTTCAAAGAGAGTGATAGAAT
CTGGCCAGACCAGTTGAATGACAATGAATATACCAAGTTTATTCTCCTAATTATCACACACCTCCTTATCTCA
CTGCTGAGCCAGAGGTAACCTTACCACCGATTAAGGCCACAGGATAAGTTTCTGGTGTGGCTACTGATGGGTGT
GGGAGACTATGCATAGGCAGGATGTGGTTAGGATTGTGGGTGAGTACCTAAGTGGCATGCATCACCAACAGCCAA
TAGCTGTTGGTGGCTACAAGGTGACTCTGGGACAGATGCATGGCCTTTTAAACAGAAAGGAGAACCAAAATGTCTT
CGGTATTTGAGGATCAGAACGCAGCAACCCATCTCATTGCCACGCTGTGGGCAACAACGAGTTTGGGACTGTTG
ATCATGAGCGCCTCTCTAAAATGCTTAGTCTTCTGAAGAGCTTGTCTGAATGTACAGAGATGACATTACAATCA
TTGTAGTTCAGTTCAATTCTCATGTTGTAGGGGCGTATCAAAACCAAGAAAAGTGAGTGGCTCTTTACTGGCAAT
TCTCAAATGATTACATTTAAAGGGCAGATTTTTTAAAGATCTACTATAATAACATTTTCAGGTGGCATTCTAA
GCATTTACCCTTTTGATACTCTAGGGGCGCTCCAAATTGACTTTGCAGCAGGGTGGCAGGGCAGAAGAGTCTGGT
CCTGCCTAGCTCAGATTTTCATGGCACCTGCACCTGAGGCAAGCACTTCTTTATCACAGGTGTCTTGAAACATTAG
CTTCTTTTACCAACCTGAGAAAATTAGGATGACCTGGCAAATAAGATCTTGAATAGCCAAAAGCAAGTATCTTGC
TGTGTGTAGTCTCTTGGTTAAAGTGAAGAACAGTACTGTTTACACCTTTCTTCACTGAGATTCCAGTGACATGAG
AACATATATTTATTGCATGATTTTCTAGTACACAGTCTATGCATTATTCATATACATTTATTTTAGCCTAAAGTG
GTTTTCAAATCCAGTTCTTCAAGCCATAAATGACCAAGATCCAAGCAATCTGAATTTGTTTTGTGATTATTTGA
CTGGAATGCTTCTTAAGTGAATAACTATACTCCGTTATCCACCCGATTTCCTAATGTAATTGAAACATTTTCTA
GTTTGCCACACACTTGGAGACCGTAAGGGTTTTTAGTTTGATCTACTCTTCTATTGAAGTTAAAAAAAAAAAAA
AAAAA

2374/2825
FIGURE 2097

MLSAPCCDDRRMCVCPGPRRIGIPVRSSSLPLFSDAMPAPTQLFFPLIRNCELSRIYGTACYCHHKHLCCSSSYI
PQSRLRYTPHPAYATFCRPKENWWQYTQGRRYASTPQKFYLTTPQVNSILKANEYSFKVPEFDGKMSVLSLDLTA
IKLPANAPIEDRRSAATCLQTRGMLLGVFDDGHAGCAWSQAVSERLFYYIAGSLVPHETLLEIENAVESGRALLPI
LQWHKHPNDYFSKEASKLYFNLSLRTYWQELIDLNTGESTDIDVKEALINAFKRLDNDISLEAQVGDPNISFLNYLV
LRVAFSGATACVAHVDGVDLHVANTGDSRAMLGVQEEDGSWSAVTSLNDHNAQNERELERLKLHHPKSEAKSVVK
QDRLLGLLMPFRAFGDVKFWSIDLQKRVIESGPDQLNDNEYTKFIPPNYHTPPYLTAEPVITYHRLRPQDKFLV
LATDGLWETMHRQDVVRIVGEYLTGMHHQQPIAVGGYKVTLGQMHGLLTERRTKMSSVFEDQNAATHLIRHAVGN
NEFGTVDHERLSKMLSLPEELARMYRDDITIIVVQFNHSHVVGAYQNQEK

2375/2825
FIGURE 2098

GTGGTAGCGGTTATTTCGGCGGCCCGCGGCGGACCATGGCCCTGGCCCTGGCCCGGCGTCGCTGGGCTTTTCCTCAC
GGCGTCCCCGAGCAGCGTCGCAGAGCGGGCCGACTTCCGGGAAGGAACTGACCAGCGACTGAGCGGCGGGCCGGCG
CGCTTAGCGCCCTGAACATGCGGCAGTCCCTGCGGGCGACCCCGGGCTCCGGACAGGCGGCGGGCGGAGGCGGCGG
CTCGGGAGGGAAGGAGGCGGCGGCGCGGCGGAGGTGGCGGCGGAGACGGCCGGCGCCCGGCGCGGAGCCCTAGG
GAGGCAGTTCAGCGCGGCCCTCGGGCCTCGTTCGAGAAGGATGCTGTCCCGAAAGAAAACCAAAACGAAGTGTCCA
AGCCGGCCGAGGTGCAGGGGAAGTACGTGAAGAAGGAGACGTGCGCTCTGCTTCGGAATCTTATGCCTTCATTCA
TCCGGCATGGTCCAACAATTCCAAGACGAAGTATCTGTCTTCAGATTCAAGCCCTAATGCCTTTTCAACTT
CTGGAGATGTAGTTTCAAGAAACCAGAGTTTCTTTAGAACTCCAATTCAAAGAACACCTCATGAAATAATGAGAA
GAGAAAGCAACAGATTATCTGCACCTTCTTATCTTGCCAGAAGTCTAGCAGATGTCCCTAGAGAGTATGGTTCTT
CTCAGTCAATTTGTAACGGAAGTTAGTTTTGCTGTTGAAAATGGAGACTCTGGTTCCCGATATTATTATTTCAGACA
ATTTTTTTTGATGGTCAGAGAAAGCGGCCACTTGGAGATCGTGCACATGAAGACTACAGATATTATGAATACAACC
ATGATCTCTTCCAAAGAATGCCACAGAATCAGGGGAGGCATGCTTCAGGTATTGGGAGAGTTGCTGCTACATCTT
TAGGAAATTTGACTAACCATGGTTCTGAAGATTTACCCCTTCTCCTGGCTGGTCTGTGGACTGGACAATGAGAG
GGAGAAAATATTATATAGATCATAACACAAATACAACCTACTGGAGCCATCCTCTTGAGCGAGAAGGACTTCCTC
CTGGATGGGAACGAGTTGAGTCATCCGAATTTGGAACCTATTATGTAGATCACACAAATAAGAAGGCCCAATACA
GGCATCCCTGTGCTCCTAGTGTACCTCGGTATGATCAACCACCTCCTGTCACATACCAGCCACAGCAAACTGAAA
GAAATCAGTCCCTTCTGGTACCTGCAAATCCATATCATACTGCAGAAATTCCTGACTGGCTTCAGGTTTACGCAC
GAGCCCCTGTGAAATATGACCACATTCTGAAGTGGAACTCTTCCAGCTGGCTGACCTGGATACATACCAGGGAA
TGCTAAAGTTGCTCTTCATGAAAGAATTGGAGCAGATTGTTAAATGTATGAAGCATAACAGACAAGCCCTTCTTA
CAGAGTTGGA AAAACCGAAAGCAGAGACAGCAGTGGTATGCCCAACAACATGGAAAAAATTTTTGAGCTGATTTTT
TAAAAATTTAAGTTTTGTAAGAGCTTTAAAATATTTTACAGATAAAAAATTGCAAAACAAGTACTCTGGTTAATA
AATGCTGCTTCCCTTGTGGAAATTTATAAAATTTCTAACTTTACATGTATTTTGTATTAGAAATTTTCTTTTATTG
AATGAGAAAAATTAGTCTATCATTTTAAAGAGCCAATATGGCAAACACTTTCAAATACTGTATATTAGGAACTGT
TTTGGTATTCTTGATGGAAAAAAACGCAGCGGAAATGTCATTATGAACAGATGTTAAATAGGAAATTATTACTTG
TTAACTTCTTACAGCAGTAGTACCTTCTTTAAAAAAGAAATCTGCGGTATTTTTTTAAAAAAGTTTA
CCGCTGTAGTGTGAAATATTGTCTGGAAAGGGATGGTTTAAATATTACCATGATGTAGTTGAAATATAAAATAGG
ATTTGGAACCTTATTGTGATAAAATATTTATATATGATGTATGTTTGTCTCCCTCTCCAAAGTAAGGAACCCAGC
TGGGCGTGGTGGCTCACTCCTGTAATCCCAGCATTTTGGGAGGCCGAGGTGGGTGGACCGCTTGAGTCCACGAGT
TTAAGACCAGCCTGGGCAACATGGTGAAGCCCCATCTCTACAAAAAATACAAAAAATTAGCCGGGTATGATGGT
GTGTGCCTCTAGTCCCAGCTACTTGGGAGGCTGAGGTGAGAGATGGCTTGAGCCCAAGAGGCAGAGGTTGCAGG
GTCAAGATCGCACCCTTGCACTGCAGCCTGAGAGAGAGAGAGCCAGACCTTGCTCAAAAAATAAAAAATAAAA
AAATAAAAAACAAAATAAGGAATCCTTTTTAAAGCATGTTGAGAAAGTATTTTTTGGTATGAATGGGTGACGGGCCT
TTAATCTTTTCAAGGAATACATATAAGCAGGAATACTTAGCCTGTATTGGGAAGGTGCGTGAAACTCAAAGTTGCT
AACATCATCTTCTTATTTTCAAGCAGTGTCTGTTACTGCATTTAGCATGGCTCTGACGAGGCAGTGGAGAGTTCC
TGACAGCATAGCATACTGCCTTCTGACAGACTGGGTTAAGCTACCAAAAATGACAACCAGGGATTCAAAAAAAT
TTTTGGTCATTAAATCGAATGTATATTACTTTTTAATTTTCTAAGTATTTATCACAGGACTTTAACACCATA
TATTTCCCTCCCAGTTTTTCTCCCTTTTGGTTAATAGTTAAACATTTTTTCATAATTAGTGCTGTACATTTGA
TTGCAACAAATTGGTGATACTTCTAAACTATAACTATAAATCTCTAGAATTCTGTGAATTTCAACATTATTTGA
AGTAGTTCTTCAGTTATATTTACATGTGTTGTAAATATGTAAATATACTTTTAGCTTAGGAAGTCTTCCAGAATA
CAAACACTCCAGTTAGATATCAGTGAGTTTGAATAACTGAAGAAATGTTGACAATGTTAAGTGTGTTGATTTTA
TATAACAAGCTTATTAAATATATTTTTGTGG

2376/2825
FIGURE 2099

MLSRKKTNEVSKPAEVQGKYVKKETSPLLRNLMPSFIRHGPTIPRRTDICLPDSSPNAFSTSGDVVSRNQSFRLR
TPIQRTPEIMRRESNRLSAPSYLARSLADVPREYGSSQSFVTEVSFAVENGDSGSRYYYSDNFFDGQRKRPLGD
RAHEDYRYEYNHDLFQRMPPQNQGRHASGIGRVAATSLGNLTNHGSEDLPLPPGWSVDWTMRGRKYYIDHNTNTT
HWSHPLEREGLPPEGWERVESSEFGTYYVDHTNKKAQYRHPCAPSVPRYDQPPPVTYQPQQTERNQSLLVPANPYH
TAEIPDWLQVYARAPVKYDHILKWELFQLADLDTYQGMLKLLFMKELEQIVKMYEAYRQALLTELENRKQRQQWY
AQQHGKNF

2377/2825

FIGURE 2100

CGACTTTCCCGATCGCCAGGCAGGAGTTTCTCTCGGTGACTACTATCGCTGTCA**ATGT**CTGGTTCGTGGCAAGCAAG
GAGGCAAGGCCCGCGCCAAGGCCAAGTCGCGCTCGTCCCGCGCTGGCCTTCAGTTCCCGGTAGGGCGAGTGCATC
GCTTGCTGCGCAAAGGCAACTACGCGGAGCGAGTGGGGGGCCGGCGCGCCCGTCTACATGGCTGCGGTCCTCGAGT
ATCTGACCGCCGAGATCCTGGAGCTGGCGGGCAACGCGGCTCGGGACAACAAGAAGACGCGCATCATCCCTCGTC
ACCTCCAGCTGGCCATCCGCAACGACGAGGAAGTGAACAAGCTGCTGGGCAAAGTCACCATCGCCCAGGGCGGCG
TCTTGCCTAACATCCAGGCCGTACTGCTCCCTAAGAAGACGGAGAGTCACCACAAGGCAAAGGGCAAG**TGA**GGCT
GACGTCCGGCCCAAGTGGGGCCAGCCCGGGCCGCGTCTCGAAGGGGCACCTGTGAACTCAAAGGCTCTTTTCAG
AGCCACCCA

2378/2825
FIGURE 2101

MSGRGKQGGKARAKAKSRSSRAGLQFPVGRVHRLLRKGNYAERVGAGAPVYMAAVLEYLTAEILELAGNAARDNK
KTRIIPRHLQLAIRNDEELNKLLGKVTTIAQGGVLPNIQAVLLPKKTESHHKAKGK

2379/2825
FIGURE 2102

GTGTGTTCTGATCTTCAGTGCGGTAGCACATTCTCCATTTAGAAAAGAGTGGTCAGAATAATTGTGGACGGCACA
GTGGCTTTTTTAAACTACAGTCTTTAGGTGTAAGGTTTGGCCGCCGGGAGCAATTTTATGATCAAATATGATGAA
CTCCTAAGTCACTGAGGTGTGATTGGGCCAATGTTGGCATGAGGTTCTTGCTCTACTTCCAGTGTTTTGATTCCA
CTGGGAGAATTTGGCCTAGTGTGTGGCTTTGGATGAATCCGTGTAGAGAGAGGTGAGCTTGTCTCTGTTACAGATG
CTGTCAGACATAGCGGTAGTAGGCACCTAGGGAGGAAGTGGCCGTTAGTTTTACTGACTTTTTAAGAATGGAG
AATGCACGTGGGTTTTCTGTTGCGGATGATTCATAGTAAGCAAGCGGTTGATGCTGTTAATACCGGCCCCACCCGA
TTGACATTAAGTTTATTCAGCTTTTAAAAAGATGAAGAACTAAGGGGAACAAATTTAAGTTTGTTGCAACTTAGC
CACACATGCTTCCCTGGTACCAGCTGGAATCAGCAGCTCACAGGCATCTTCAGGACACTTCAGTGTATATGACAC
AGTACTTTGTTAGCGTCTGCGTGTGTATGGAAAGTTGACAAAAAATGGCATGAAAAGATCATGATTGGATTTTCT
TTTAAACCTGCCCTTCTGTAAAAAATAGTTTATATATTTTTTAAATTAGTAGGTATGTGTGGCTTCCTTTTTTCCT
AACATTCCCAGCAAATTTTTGCTGCTAAGACTATCACTGTTAAAGTGAAAATTACAGGGAAAAATGTGATGAATA
TACCGTAACTCAAATGTGATATTTTCTTAAATCACTCTTTTATGCTTTAGGAACTGGGTTGGGTCTCCACTTT
GGATTATTAGTGTTAAAGGGCCTGAGTATACGTGGATTTCAATTGTAAAATTTAACTCCTTGTCTTTTACTTGGGG
CACGGGGCCCTGGGAGGGCTTTCCCTACTTTCCCCACTATGTTAACAGGTAATTCTGATTTATGCCTTTAGTTTG
ACTTATTTTTTAACAAAATATTAGAAGTTATGCTTTAAATGTTTTAAATGTTGGACTGAAATTTTCATCTTTGTTT
GAGAATCTATGAAGTGTATCATATACGTGGCCTAAAGCAAGGTGTGTATTTTGTTATTCTGAAATTGTTTGCAT
CTGGACAAATACTAAATATCCAGTGGCCTTTTTTTTTTTTTTTTTTAAACCTGTGTATCCATCTCATCTTTTGCG
CATTCCTAGTAAGCAAAAAAATTTGTTATGCCATCTTCATTATTCGAATTACAGACTGAAAAAATATGGCCAGTT
TTTAAAGAAGTTTAGATTATGTTTTCCATGGAAGGACAAGTCTGACTGTTCA~~TAGG~~CTGATTTTCTTTAAGAGGA
TTATTCTGTTTTACAATTTCAATTCTAGATCACATTTTATATATGCTGCATGCCAAAAA

2380/2825
FIGURE 2103

MWTEIFIFCLRIYEVYHIRGLKQGVYFVILKLFCIWTNTKYP SGLFFFFLNLCIHLILLRIPSKQKNLLCHLHYS
NYRLKKYGQFLKKFRLCFPWKDKSDCS

2381/2825
FIGURE 2104A

GAGCCGGCCGCGGCGCCCTCTCTCCGTGTGGCCCCCTGAGCGGCCCCCTCCCCTGCCCGGGAGGGAGGCGGGGG
GCACCTGGGGCCCGCC**ATGA**ACCCCGGCTTCGATTGTCCCGCCGGAACCCGCAGGAGGACTTCGAGCTGATTCA
GCGCATCGGCAGCGGCACCTACGGCGACGTCTACAAGGCACGGAATGTTAACTGGTGAATTAGCAGCAATTAA
AGTAATAAAATTGGAACCAGGAGAAGACTTTGCAGTTGTGCAGCAAGAAATTATTATGATGAAAAGACTGTAAACA
CCCAAAATATTGTTGCTTATTTTGGAAAGCTATCTCAGGCGAGATAAGCTTTGGATTTGCATGGAGTTTGTGGAGG
TGGTTCCTTACAGGATATTTATCACGTAACCTGGACCTCTGTCAGAACTGCAAATTGCATATGTTAGCAGAGAAAC
ACTGCAGGGATTATATTATCTTCACAGTAAAGGAAAAATGCACAGAGATATAAAGGGAGCTAACATTCTATTAAC
GGATAATGGTCATGTGAAATTGGCTGATTTTGGAGTATCTGCACAGATAACAGCTACAATTGCCAAACGGAAGTC
TTTCATTGGCACACCATATTGGATGGCTCCAGAAGTTCAGCTGTTGAGAGGAAGGGGGGTTACAATCAACTCTG
TGATCTCTGGGCAGTGGGAATCACTGCCATAGAAGTTCAGAGCTTCAGCCTCCTATGTTTGACTTACACCCAAT
GAGAGCATTATTTCTAATGACAAAAAGCAATTTTCAGCCTCCTAACTAAAGGATAAAATGAAATGGTCAAATAG
TTTTTCATCACTTTGTGAAAATGGCACTTACCAAAAAATCCGAAAAAAGACCTACTGCTGAAAAATTATTACAGCA
TCCTTTTGTAAACACAACATTTGACACGGTCTTTGGCAATCGAGCTGTTGGATAAAGTAAATAATCCAGATCATTC
CACTTACCATGATTTTCGATGATGATGATCCTGAGCCTCTTGTGTGCTGTACCACATAGAATTCCTCAACAAGTAG
AAACGTGAGAGAAGAAAAAACACGCTCAGAGATAACCTTTGGCCAAGTGAATTTGATCCACCTTAAGAAAGGA
GACAGAACCACATCATGAACTTCCCGACAGTGATGGTTTTTTTGGACAGTTCAGAAGAAATATACTACACTGCAAG
ATCTAATCTGGATCTGCAACTGGAATATGGACAAGGACACCAAGGTGGTTACTTTTTAGGTGCAACAAGAGTCT
TCTCAAGTCTGTTGAAGAAGAATTGCATCAGCGAGGACACGTCGCACATTTAGAAGATGATGAAGGAGATGATGA
TGAATCTAAACACTCAACTCTGAAAGCAAAAAATTCACCTCCTTTGCCACCAAGCCTAAGTCTATCTTCATACC
ACAGGAAATGCATTCTACTGAGGATGAAAATCAAGGAACAATCAAGAGATGTCCCATGTCAGGGAGCCAGCAAA
GCCATCCCCAAGTTCACCTAGACCACCACCTCCAGATTACCCCCACACAAACCTGTTGCCTTAGGAAATGGAAT
GAGCTCCTTCCAGTTAAATGGTGAACGAGATGGCTCATTATGTCAACAACAGAATGAACATAGAGGCACAAACCT
TTCAAGAAAAAGAAAGAAAGATGTACCAAAAGCCTATTAGTAATGGTCTTCTCCAACACCTAAAGTGCATATGGG
TGCATGTTTTTCAAAGTTTTTAAATGGGTGTCCCTTGAAAATTCAGTGTGCATCATCATGGATAAACCCAGATAC
AAGAGATCAGTACTTGATATTTGGTGCCGAAGAAGGGATTTATACCCTCAATCTTAATGAACTTCATGAAACATC
AATGGAACAGCTATTCCCTCGAAGGTGTACATGGTTGTATGTAATGAACAATTGCTTGCTATCAATATCTGGTAA
AGCTTCTCAGCTTTATTCCCATAAATTTACCAGGGCTTTTTGATTATGCAAGACAAATGCAAAAGTTACCTGTTGC
TATTCCAGCACACAACTCCCTGACAGAATACTGCCAAGGAAATTTTCTGTATCAGCAAAAATCCCTGAAACCAA
ATGGTGCCAGAAGTGTGTGTGTGTAAGAAATCCTTACACGGGCCATAAATACCTATGTGGAGCACTTCAGACTAG
CATTGTTCTATTAGAATGGGTTGAACCAATGCAGAAATTTATGTTAATTAAGCACATAGATTTTCTATACCATG
TCCACTTAGAATGTTTGAAATGCTGGTAGTTCCTGAACAGGAGTACCCTTTAGTTTGTGTTGGTGTCTAGTAGAG
TAGAGACTTCAACCAAGTGGTTTCGATTTGAGACGGTCAATCCAAATTCTACCTCTTCATGGTTTACAGAATCAGA
TACCCACAGACAAATGTTACTCATGTAACCCAACTGGAGAGAGATACCATCCTTGTATGCTTGACTGTTGTAT
AAAAATAGTAAATCTCCAAGGAAGATTAATAATCTAGCAGGAAATTTGTCATCAGAACTCACCTTTGATTCCAGAT
TGAATCAATAGTGTGCCATACAAGACAGTGTGCTAGCTTCTGGAAACATGGAATGCAAGGTAGAAGTTTTAGATC
TAATGAGGTAACACAAGAAATTTAGATAGCACAGAATTTTCAGGCTGCTTGATCTGACAGGGTCGTGGTTTTT
GGAAAGTAGGCCAACTGATAACCCACAGCAATAGCAATTTGTACATCCTGGCGGGTCATGAAAACAGTTAC**TG**
AGAATTGTTGTGCTTTGACAGTTAACTCTAGAAAGAAAGAACTACCCTGCAACATTAATGGATGCTTGAAGC
TGTACAAAAGCTGCAGTAACCTGTCTTCAGTTACTTTGTAATTTATTGTGGCATGAGATAAGATGGGGAAAAATTT
TGTTTTAAGTGGTATGGATATATTTAGCATATTGAACCACACAAGTGCTTAATTCATTGTTATGTAATCTTTGTA
CATATAGGCAGTATTTTTTCTGTGAACTTCATATTGCTGAAGACATACACTAAGAATTTATGTAGATAATGTAC
TTTTATGAGATGTACAAGTAAGTGTCTTATCTGTACAGATGTAAATGTTGATGAAAATGCAATTGGGGTTAATAT
TTTAAGAATTCCTTTAGTATATTCTTGGGTGTGGCTATATTACAAAATGGGATGCTGGCAATGAAACAATACATTT
AACACTATTGTATTTTTATTATATGTAATTTAGTAATATGAATATAAATCTTGTAACTTTTAAAATTGTAATGGA
GGCTGTAATCATTTTTATAATCTTTTTAATTTAATGCAAGTACACTGGTGTATATTTGCACAAAGTATTGATA
TGTGATGTATTAAGTCACAAAAGTAAGCTGTGACATTGTCTATAAGCATTGGCTCCACAAATGTATTTGGATTG
TTTTCTATGTGAAGCAAACCAATTATAATTAACCACATGTTGTAGTAACCTGGTCTTTTTATATTTAAGCAGAATC
CTGTAAGATTGCTTGTCTTTGCTTAAAAACAATACCTTTGAACATTTTTGAATCACAGAATAGCGGTACCATGAT

2382/2825
FIGURE 2104B

AGAATACTGCAATTGTGGTCAGAATTACAGTATGCACAAAGAATTAATTAGCATTATTAAAGAGTCCTCACTAAA
CATTTTCATATGATCACACTGAAGAACTGTAACATTCCATAGAGTGAAGTGGTTCAAATTTCTCTTGGAATTTTAA
CTTTTGTTGGCCTTATTTTATGATCCTTTTCATATTTCTTTTGACTTAGAGTATTAATACATGGCCAAAATAATT
TAGTTACTACCTCATACAAACAATATAATGGTTACTACACATCACAGGAACTTAGTTTTGGTTTAAAGTCATTTTT
GATTGCTTTTTTCCAATGGAATATGTATATACCAGGTTTTAGCAAATGCACACTTTTGGCTCTTTTGGTATAT
GTTCTTTATATTTTAATGTGAGTATATACACTAAGAACAACTAAATTGTGATTTATGATCTTCATTTATTTTAA
TGATAATGGTTTTAAATATGTTCTGATTGTACATATTGTAAAATAAACATGTTTTTTAACAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAA

2383/2825
FIGURE 2105

MNPGFDLSRRNPQEDFELIQRIGSGTYGDVYKARNVNTGELAAIKVIKLEPGEDFAVVQQEIIMMKDCKHPNIVA
YFGSYLRRDKLWICMEFCGGGSLQDIYHVTGPLSELQIAYVSRETLOGLYYLHSGKGMHRDIKGANILLTDNGHV
KLADFGVSAQITATIARKRSFIGTPYWMAPEVAVERKGGYNQLCDLWAVGITAIELAELOPPMFDLHPMRALFL
MTKSNFQPPKLKDKMKWSNSFHHFVKMALTKNPKKRPTAEKLLQHPFVTQHLTRSLAIELLDKVNNDHSTYHDF
DDDDPEPLVAVPHRIHSTSRNVREEKTRSEITFGQVKFDPPLRKETEPHHELPDSGDGLDSSEEIYYTARSNLDL
QLEYGQGHQGGYFLGANKSLLKSVEEELHQRGHVAHLEDDEGDDDESKHSTLKAKIPPPPLPPKPKSIFIPQEMHS
TEDENQGTIKRCPMSGSPAKPSQVPPRPPPPRLPPHKPVALGNMGSSFQLNGERDGSQCQQNEHRGTNLSRKEK
KDVPKPI SNGLPPTPKVHMGACFSKVFNGCPLKIHCASSWINPDTRDQYLIFGAEEGIYTLNLNELHETSMEQLF
PRRCTWLYVMNNCLLSISGKASQLYSHNLPGLFDYARQMOKLPVAIPAHKLPDRILPRKFSVSAKIPETKWCQKC
CVVRNPYTGHKYL CGALQTSIVLLEWVEPMQKFMLIKHIDFPIPCPLRMFEMLVVPEQEYPLVCVGVSRGRDFNQ
VVRFETVNPNSTSSWFTESDTPQTNVTHVTQLERDTILVCLDCCIKIVNLQGRKSSRKLSELTFDFQIESIVC
LQDSVLAFWKHGMQGRSFRSNEVTQEISDSTRIFRLLGSDRVVLESRPTDNPTANSNLYILAGHENS Y

2384/2825
FIGURE 2106A

GCTTATATTTTTTCCAGCTCCCAAATTCCCTTTATTCCACTTTAGTCCCTTCATTTTCAGAGATGAGGAAACAGA
TTGCTTTGTTCAAAGACAGCTAGAACTAGAACACAGGCTAATACTTGCTAGCCATGTGATATACTAATGTCAGCC
AAATACGGGCATTTACACTTTTCAGATGTTTGCCATATCTGTGCACCTTACTAATTCTGTTTAAATACAATTTAAATT
GACTCCTTTAAATAAGCTTATTTTAAAGGAAATTTTTTGCTACTATAAATAGAAAACCATTATATCCTTTAAATA
GTAACTCTAAATAGGAATTCAAAACAAAGCAACGTTATTAAAAATTTAATTTAAAAATTAATTTAAATTTAATTGTT
ATTAAATTTTTAATTATTGCTGTTCTTCGTCAGAAATGTGTCAAAGCATTGTTTTTCATGTTTGATGTCAGTTCCT
TAATTGTCTAAACAGAAAAAGCACAGCTAATGCCTCTAGTTAAGCTTCTGTATAACTTTTTTAAATGAAATGCTT
CTTAGAGGGGAAATGAGAGGGCATGAATACATGTTTATATACTAAAGTATGATTTTCATGTATATCAGAAGATCTT
ATTATATGGAACCAAATATTCTTTGGTTGATTTAATTGTTCTTGAACTTCAGTTTTTACCTTGAAGGTTTTTA
GTTAGCTTAGCATAAGTTTATTTTTCTAAATAAGGAATCTGATTGCCTCACAACCTCAGATGTATCACAGTTATGG
TGAAATAGCAATATATTGGTTTCTGTAACTTTTAAATACCGTAATGAATTAATCTCTTCAGCAAAAGCAAAT
ATATCTAGGGTGACGAGAGGTGTTTTTAGTGATTGTAATGATGGAAATGTTTTTCTTAAATATTTCTGAAGCA
TTTTTTAAATAATTTTTTGAATTTATTGATGATAGTAGTTGTGTGTTAGTGTAATGACTGGTCTAAATGTGTA
TGTCACCTCCAAGGGATTAGTAGGGGTCAGAAATGATTGTTTTTATTGACTTTTCTTTGACGTGTTCTTAT
TCATTGGGCTACATACATTCCCTGTTGCCTTCTCACCAAAAGTGCCACTACACAGGCTGTATTTTCATTGTACTGT
AGAAAAAGACAAGTAGACCTTTTTTCATTTCATGAGATTCCTATGAAATCTGTTGGTGGAGGTATAAAATGAGGAGA
CTTTTATGGGCTAGCTAGTAGGAGTTTTGCTGTGAAACCTTTGTAACAGGTCTATCAGGAACCTAGGGAGAGAAAT
AAATGCAGGAAATACTTGATCCCATTAAACTGAGGATGAAAAAGACATGATAATATTTTGGGGATTATTTATTGT
GTGATTTTCCGGCTGATCAGAAGTGTTAATTTTTTGTATACTTGTGTCAAATACATATATATATATATATTTTTG
AAATGGAGTCTTGCTCTGTCAACCAGGCTGGAGTGCAGTGGTGCATCTGGGTTCACTGCAACCTCTGCCCTCCAG
GTTCAAGTGATCCTCCTGCCTCAGCCTCCCGAGTAGCTAGGACTACAGGCACGTGCCACCACGCCCTGCTAATTT
TTGTATTCTTAGTGGAGATGGGGTTTTACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAAGTGATCTTC
CCACCTTGGCCTTTCTGAACTATTTCTTTACACACATTTAGAACTACATCTAAGTATTATAGTTTTTCACTTT
CACCATCAGACAAAATTCAGAAGATTCAAGAGAAGGAAAGTCGATTGTATTTACTCATATTTTTTGTACCGTGT
TTTACATCTCATATTTTTAAGGCTCTCTTAATTATTTATTTTTCTGTTTAGTTAATTTCTCTAGCCATTCTTTATT
TATAGTGGGTCTGCTGGTAACAAATCTCTCAATTTTCTCTGCTCTGAGAATGTCTTGACTTCCCTTCCATTTTT
GTCAGCACCTGAAAAATACTATGCCACTATCTTCTGGGTTCTGTGGTTTCTGATGAGAAGTCCACTGTCAGTCTA
ATTGTCGTTATAAATGCAGTGTTCTCTCTCTCTCTCTGCTTCCAGGATATTTTTCTTTTTTTTTTTTTTTTTT
TCTTGAGACGGAGTCTCACTCTGTGCGCCAGGCTGGAGTGCAGTGGCGCAATTTTGGCTCACTGCAAGCTCTGCC
TCCCGGGTTCAAGCGATTACTCCCACTTTAGCCTCCCAAGTAGCTAGGACTACAAGGCACACCACCATGCCTGGC
TAATTTTTGTATTTTTTAGTAGAGACGGGGTTTACCATGTTGCCCAGGCTGGTCTCGAACTCCTGACATCAAGTG
ATCTTCTGCTCCGCTTCCCAAAGTGCTGGAATTACAGGCGTGAGCCACTGCTCCAGCCTCTTATTTTTTCA
GCTTACTCTTTCTTCTGTCTTTTTGACATGTGTGTCAGTGACACAGTGTTAGATTTTGCTATAGTCTCACGC
ACGGGCTATATAAGGCTCTGTTTTTGTTCATTTTGTTTTCCTATTTTCTCTCTATTTCAGATCGAGTAATTTCC
ACTGTTCAGTTTTATCATAGCTGCTTTTAAATCTTTGTCAGGTAATCTGTCTATCTAAGTTTTGGCACCTATTGA
TTATCTTTTGCATTGTTTTTGTTCCTGTTTTGTTTTGAGATGGAGTCTTGCTCTGTTGCCAGGTTGG
AGTGCACTGGCACTGATCTCGGCTCACTGCAACCTCCTCCTCCCGGGTTCAAGTGGTCTCCTGCCTCAACCTCC
TTAGTAGCTGGGATTACAGGCATGTGCCACCACGCCCGGCTAATTTTGTATTTTTTAGTAGAGACCAGGTTTATCC
ATGTTGGTCAGGCTGGTCTCAAACTCCCAACCTCAAGTGATCCGCCTGCCTCGACCTCCCAAAGTGCTGGGATTA
CAGGCGTGAACCACTGCACCCAGCCTATCTTTTGCAATTGTTTTAAATCTTGTTCTTGCTAGGATGAATGATTTTC
TGTTAAACTAGATATTTTTCATATTATGTTTCTAGGCTCTGGATATTATCTAAACCTTCTGTTTCCACTGGCTTT
TATTGACACTGCTTTGGCAAGGTCATAGGGGGTGCTTCTTGTATTGCTGGGTGGGGGTGGAAGTCTAGCTGACAC
CTACTGAGGTAGGTGCTGGGGCATGCCCCGCCATCAGGGTGAAAGTCTGGCTCCCTAGTTGGCCTACTTTTACA
TTGCCCTAATAGGGCATTGGAGCTCCTCACTATGGTTTATGAGCTGGAAGTCAAGGCTCCTCACTTAGCTTTTCTG
TGGTGTGGGTGGTGGTGGGGCAAACTGTTTTCTGGGTTTGGCTGGAGTGGAGCAGTTACTGTCAAAAGTTTTCT
GTCTTGCCAGGCTGTCCCTTTCTTGTTCCTTTGGCTAGAGAGAGCAAGCTTTTGTGTGGCTCTTTTTGTCTGTG
CCAGTTGGCATTTCAGGTTGCTGCCTTCTTTAGCTCCAAGTCTGGGATATATTAGGCAAAAAGAAAACCCAGAG

2385/2825
FIGURE 2106B

AATTTACACCACCGTGTCAATTCCATGGGTCTGAGGTCCCTTACTTAGTCTGCCTTCTCTCCACTTTTCACAGTC
TTCTCATGTTTTGTATATAATGTCCAGGGTCTTTAGTTATACTTAGCAGAAATAAAAGGGAAAAAGTATGTCTGCT
CTATGCTTCTGTAAGTGGAAGTCTTCAAATTTGCATTTTTGATTCCCTTTAAACAGTTTTGTAAAAATATATAATCA
TTATTGGGCAAAATGTCCCATAAAAATGTATATACCTTGTGATGGTTTTGCATAATATTGTGTTCAAGAGGACTGCT
GAAAAATAACATCTTTATTTAAACTGAAACGAATTGTTTCACATTATTAATGAAAACTTTTCCCTCTAGGAAATA
ATGCAAAAGGTGTCCCAAGGCTCCTGACCAGTGAACAAAGATTTGAGAAAGACAGCCAAGCTCATGTTTTCTCCT
GATCAAGAAAATCATCCATCTAAAGCACCAGTAAAATATGGTGAACCTCATTGTCTTAGGCTATAATGGGTCTCTC
CCAAATGGCGATAGAGGAAGGAGGAAAAAGTAGGTTTGCTTTGTTTAAAAGACCTAAGGCAAATGGGGTGAAGCCC
AGCACTGTGCATATTGCTTGTACTCCTCAGGCTGCAAAGGCAATAAGCAACAAAGACCAGCATAGCATATCATAT
ACTTTGTCTCGGGCCAGACTGTGGTGGTTGAATATACTCATGACAGCAACACAGATATGTTTCAGATTGGCCGG
TCGACTGAAAGCCCCATTGATTTTGTAGTAACTGACACGGTTCCTGGAAGTCAAAGTAATTCTGATACACAGTCA
GTACAAAGCACTATATCAAGATTTGCCTGCAGAATCATATGTGAACGGAATCCTCCCTTTACAGCACGGATTAT
GCTGCAGGATTTGACTCATCAAAAAACATCTTCTTGGGGAGAAGGCTGCCAAATGGAAGACATCAGATGGACAG
ATGGATGGCTTGACCACTAATGGTGTCTTGTGATGCATCCACGCAATGGGTTACAGAAGACTCCAAGCCTGGA
ATATGGAGAGAAATATCGGTGTGTGGAATGTATTTAGCCTACGTGAAACCAGATCGGCTCAGCAGAGAGGAAAA
ATGGTGGAATTTGAAACCAATCAGTTACAAGATGGCTCGTTAATTGACCTCTGTGGTGCAACATTGTTATGGCGT
ACTGCAGAAGGCCTTTCCACACTCCTACCGTGAAGCATTTAGAAGCTTTAAGACAGGAAATCAATGCAGCACGA
CCTCAGTGCCCTGTAGGGTTCAACACACTAGCATTTCCTAGTATGAAGAGGAAAGACGTTGTAGATGAAAAACAA
CCATGGGTATATCTAAACTGCGGCCATGTACATGGCTATCATAACTGGGGAAACAAAGAAGAACGTGATGAAAA
GATCGTGAATGTCCTATGTGTAGGTCTGTTGGTCCCTATGTTCCCTCTGTGGCTTGATGTGAAGCTGGATTTTAT
GTGGACGCCGGCCCTCCAACCCATGCGTTTAGCCCGTGTGGGCATGTGTGTTGAGAAAAGACAACCTGCCTATTGG
TCCCAGATCCCCTCCTCATGGTACTCATACTTTTCATGCAGCCTGTCCCTTTTGTGCACATCAGTTGGCTGGT
GAACAAGGCTACATCAGACTTATTTTTCAAGGACCTCTAGACTTAACAGACCATTGTCTTGCAAGGACTACATTATA
AATTTATAAGCTAAGTGAGTTGGGTTTTTGAACCTGTTGTCCACGTCACAGTTTTTCTGCTCTGGTCAATTGTCAT
TAAGATGAAGAATTTTTTAAACATTTATAATAAATAGTAGCAATTTCTGAGCAAAAATCTGGGAAACTCAAGCA
AAGGAATTTCTGAAAGTATCAGTCTTCTGAATTTCTGAGTTTTGAAAATATATTTTGAGGAGAAAAAGACATAGTC
TAATTTGATGCCTTCCTTTTAGTGTTTTTGAATCACCTATCCTCAGTGCTGAAATTGTTTTGTATAACTGAGGGT
ACTGTTGGTTCAAACATATGTTAGTTTACAGTTTGTGTGCAAACATTGTAAAATACAGCGACATGTATATTAACTTT
TTTCTATTTATCTTTATTATAGAAAATACCTTAGAATGTTCTTGATAGAGTAGCATGGTAACGATGGTGTACAC
CCTTGGTGTGAATGGTAGCTTAGTGAGCAACCTAGCTCAAGGATTTGCAAAGTTAGGAAGAAGGACGAGAGAGCC
TCTCTCCCCACCCAATCTAAATATGGAATTTGGTAAATTAGAATACTTTGTAATTTGTAAGACCAAATTCATAC
TAATTACCCGCGTGAAAGGTGTTTGTTTTTAACAACATTGAAGATAATCAGGAAAGATTTTTCTTAATGTTTCT
CTCGAGCGTAGTACTATAACAAAACTTAATGCTAAGAAACATTTTATATGCTCCTTTGGATATGCAATTTAATC
TAGATTATCTATTTTTCTCCCATGATACTAATCTGTTTTTAGTATCAGCAGCATTGGCAAGTTTATTTTTTGG
ATATAAACTGTGGTTCATCTGTTCACTGTTTCTAGAAAAAATCATTGCCATAAGAAAAAGTATAAATTAGCAAG
AAAGGAGAGTGACTTGATTTGCTTTTGGAAAAAGAAATGCTTAATTAATTATTCTGTATTTGGCCTTATTCGGGC
ATTAGGAAATCTAGAGATCTAAAGGGTTGAATGACAATAGTGCCCCCGTTTTTAGCAGACCAGCCTTAACCTG
GTTTGAATCCTAAGGAGATTGCCACAGTGAGACTTAAGGAAATGTTTGGTTGGCAGATGAGCACCAATGACTGCA
GCGTGGAGTGACGCACTGCATGGTCTGTTTATTCTCTAATTCGAATATGCTTTTTGCTTCCAGAAGCAAGAAAAG
TTTCTTCTCTCCCCCTCCTTCCCACCCTTTTTTCAAAGGCACCACAAGTATAGACAGTTGCACTACATCAAATCTT
TTTTTGACACTTGTAGAAACCAGTACACTTTTAGATTAGACAGTATCTTCTTTTAATATTTTGATTTGTTTTCTT
TTAGTTTGAAAAGTTGTATAATACTTAACCTGACTGTAGCAAAGTTTTATATGTGGTAGCATACCTTTAATTTATC
CTATTACAAAACCTGTTCTGAATTTTCTTTTGGTTTTTAAAAAACAAAACCTGTTGCTTAGAAGCCATGAATTATT
TTATTTTACTTCAACTGTCGAAACTTCCTTGTTTTTAAAAATGATCATTGGGTTCACTCAGGAAATGCATGTCA
GGAAACTTGATTATAAGTTTATTAGTTGTGATGTATCAGTAACTGCTGTTACCCCTTTTTTCAAAGAAATGTAAT
TGATTTTGAAGTTTTCTAGATTGTCACATGCTTTGTGACTAATGCAAGAAAGCAAGTCCTGTGTTGTATTTGTTT
TAGTCATTTTTATTACAGGCTATATATTGTAGCTTAATTTTATTGCAATTAATTTATTTAACTAAGTAAATAC
TTTTCAAAATA

2386/2825
FIGURE 2107

MFSPDQENHPSKAPVKYGELIVLGYNGLPNGDRGRRKSRFALEFKRPKANGVKPSTVHIACTPQAAKAISNKDQH
SISYTLSTRAQTVVVEYTHDSNTDMFQIGRSTESPIDFVVTDTVPGSQSNSDTQSVQSTISRFACRIICERNPPFT
ARIYAAGFDSSKNIFLGEKAAKWKTS DGQMDGLTTNGVLVMHPRNGFTEDSKPGIWREISVCGNVFSLRETRSAQ
QRGKMVEIETNQLQDGLIDLGCATLLWRTAEGLSHTPTVKHLEALRQEINAARPQCPVGFN TLAFPSMKRKDVV
DEKQPWVYLNCGHVHGYHNWGNKEERD GKDRECPMCRSVGPYVPLWLGC EAGFYVDAGPPTHAFSPCGHVCSEKT
TAYWSQIPLPHGTHTFHAACPFC AHQLAGEQGYIRLIFQGPLD

2387/2825
FIGURE 2108

GTTCGGAGCGGGCGAGCGGAGTTAGCAGGGCTTTACTGCAGAGCGCGCCGGGCACTCCAGCGACCGTGGGGATCA
GCGTAGGTGAGCTGTGGCCTTTTTCGAGGTGCTGCAGCCATAGCTACGTGCGTTCGCTACGAGGATTGAGCGTCT
CCACCCAGTAAGTGGGCAAGAGGCGGCAGGAAGTGGGTACGCAGGGGCGCAAGGCGCACAGCCTCTAGACGACTC
GCTTTCCCTCCGGCCAACCTCTGAAGCCGCGTCCTACTTTGACAGCTGCAGGGCCGCGGCCTGGTCTTCTGTGCT
TCACCATCTACATAATGAATCCCAGTATGAAGCAGAAACAAGAAGAAATCAAAGAGAATATAAAGAATAGTTCTG
TCCCAAGAAGAACTCTGAAGATGATTGAGCCTTCTGCATCTGGATCTCTTGTTGGAAGAGAAAATGAGCTGTCCG
CAGGCTTGTCCAAAAGGAAACATCGGAATGACCACTTAACATCTACAACCTCCAGCCCTGGGGTTATTGTCCCAG
AATCTAGTGAAAATAAAAAATCTTGAGGAGTCAACCAGGAGTCATTTGATCTTATGATTAAAGAAAATCCATCCT
CTCAGTATTGGAAGGAAGTGGCAGAAAAACGGAGAAAAGGCGCTGTATGAAGCACTTAAGGAAAATGAGAACTTC
ATAAAGAAATTGAACAAAAGGACAATGAAATTGCCCGCCTGAAAAAGGAGAATAAAGAACTGGCAGAAGTAGCAG
AACATGTACAGTATATGGCAGAGCTAATAGAGAGACTGAATGGTGAACCTCTGGATAATTTTGAATCACTGGATA
ATCAGGAATTTGATTCTGAAGAAGAACTGTTGAGGATTCTCTAGTGGAAGACTCAGAAATTGGCACGTGTGCTG
AAGGAAGTGTATCTTCTCTACGGATGCAAAGCCATGTATATTGAAATGCATTAATATTTGACTGTTGAGAATTTT
ACTGCCGAAGTTTACCTCCACTAGTTCTTTGTAGCAGAGTACATAACTACATAATGCCAACTCTGGAATCAAATT
TCCTTGTTTGAATCCTGGGACCCTATTGCATTAAAGTACAAATACTATGTATTTTTTAATCTATGATGGTTTATGT
GAATAGGATTTTCTCAGTTGTCAGCCATGACTTATGTTTATTACTAAATAAACTTCAAACCTCCTGTGGAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

2388/2825
FIGURE 2109

MNPSMKQKQEEIKENIKNSSVPRRTLKMIQPSASGSLVGRENELSAGLSKRKHRNDHLTSTTSSPGVIVPESSEN
KNLGGVQTQESFDLMIKENPSSQYWKEVAEKRRKALYEALKENEKLHKEIEQKDNEIARLKKENKELAEVAEHVQY
MAELIERLNGEPLDNFESLDNQEFDSEETVEDSLVEDSEIGTCAEGTVSSSTDAKPCI

2389/2825
FIGURE 2110

GCGGACGCGTGGGCGGACGCGTGGGGAAAGTTACGAGGTTTCGTGGCCGCGGTTTCCCCAGGCAGCTGGCGCTGGA
GGCTTCGGCGTCACGTGCTGGTCTGGATTTTTCTCGATGCACTGGGGAAAGCGGTGGACTCTTATCGTGGGAGGG
CTCTTGATCTGTGATTTATAGATAGGCACAGCTACTCCCGTTTCGGGAACCCAAACGGCAGACAGGTCCTAGTGCCC
ATCAGATACCCGCGGCCGGGACTCGGAGCTGTGGGGTGTGGGGAGGCGGAGGCACCAACTAAGAGCGACCTAGCA
TCGCAAAGCCGCCCTCGGGGCGCTC**ATG**GCGGGACGCCTCCTGGGAAAGGCTTTAGCCGCGGTGTCTCTCTCTCT
GGCCTTGGCCTCTGTGACTATCAGGTCCTCGCGCTGCCGCGGCATCCAGGCGTTCAGAAACTCGTTTTTCATCTTC
TTGGTTTCATCTTAATACCAACGTCATGTCTGGTTCTAATGGTTCCAAAGAAAATTCTCACAATAAGGCTCGGAC
GTCTCCTTACCCAGGTTCAAAAGTTGAACGAAGCCAGGTTCTTAATGAGAAAGTGGGCTGGCTTGTGTAGTGGCA
AGACTATAAGCCTGTGGAATACACTGCAGTCTCTGTCTTGGCTGGACCCAGGTGGGCAGATCCTCAGATCAGTGA
AAGTAATTTTTCTCCCAAGTTTAACGAAAAGGATGGGCATGTTGAGAGAAAGAGCAAGAATGGCCTGTATGAGAT
TGAAAATGGAAGACCGAGAAATCCTGCAGGACGGACTGGACTGGTGGGCCGGGGGCTTTTGGGGCGATGGGGCCC
AAATCACGCTGCAGATCCCATTATAACCAGATGGAAAAGGGATAGCAGTGGAAATAAAATCATGCATCCTGTTTC
TGGAAGCATATCTTACAATTTGTTGCAATAAAAAGGAAAGACTGTGGAGAATGGGCAATCCAGGGGGGATGGT
GGATCCAGGAGAGAAGATTAGTGCCACACTGAAAAGAGAATTTGGTGAGGAAGCTCTCAACTCCTTACAGAAAAC
CAGTGCTGAGAAGAGAGAAATAGAGGAAAAGTTGCACAACTCTTCAGCCAAGACCACCTAGTGATATATAAGGG
ATATGTTGATGATCCTCGAAACACTGATAATGCATGGATGGAGACAGAAGCTGTGAACCTACCATGACGAAACAGG
TGAGATAATGGATAATCTTATGCTAGAAGCTGGAGATGATGCTGGAAAAGTGAATGGGTGGACATCAATGATAA
ACTGAAGCTTTATGCCAGTCACTCTCAATTCATCAAACCTTGTGGCTGAGAAACGAGATGCACACTGGAGCGAGGA
CTCTGAAGCTGACTGCCATGCGTTG**TAG**CTGATGGTCTCCGTGTAAGCCAAAGGCCACAGAGGAGCATATACTG
AAAAGAAGGCAGTATCXGAGAATTTATACTATAAAAAGGGCAGGGTAGGCCACTTGGCCTATTTACTTTCAAAC
AATTTGCATTTAGAGTGTTCGCATCAGAATAACATGAGTAAGATGAACTGGAACACAAAATTTTACGCTCTTTG
GTCAAAAGGAATATAAGTAATCATATTTTGTATGTATTTCGATTAAAGCATGGCTTAAATTAAATTTAAACAAC
ATGCTCTTTGAAGAATCATAATCAGAATAAAGATAAATTCCTTGATCAGCTATAAAAAAAAAAAAAAAAAA

2390/2825
FIGURE 2111

MAGRLLGKALAAVSLSLALASVTIRSSRCRGIQAFRNSFSSSWFHLNTNVMSGSNNGSKENSHNKARTSPYPGSKV
ERSQVPNEKVGWLVEWQDYKPVEYTAVSVLAGPRWADPQISESNFSPKFNEKDGHVERKSKNGLYEIENGRPRNP
AGRTGLVGRGLLGRWGPNAADPIITRWKRDSSGNKIMHPVSGKHILQFVAIKRKDCGEWAIPGGMVDPGEKISA
TLKREFGEEALNSLQKTSAEKREIEEKLHKLFSDHLVIYKGYVDDPRNTDNAWMETEAVNYHDETGEIMDNLML
EAGDDAGKVKWVDINDKLLKYASHSQFIKLVAEKRDHAWSEDSEADCHAL

[illegible]

2392/2825
FIGURE 2113

MPLDPYHSVTWGHAAQGSHHFVFGELRVRP ILESLRDEPDPRPSREGPAGRVGALARDGPEPCDAASPPGGASC
APELARPREDKSAQQAKLEGGTRLCCRCPEESRLVPGGAVSPGDHVLEVSGTRGTCGCRPRRHAGPELAHS

2393/2825
FIGURE 2114

GGCACGAGGCTCACC**ATG**GTGGGCCCCGCGCCGCGGCGGGCTGCGGCCGCTGGCAGCGCTGGCCCTGGTCCTG
GCGCTGGCCCCGGGGCTGCCCACAGCCCGGGCCGGGCAGACACCGCGCCCTGCCGAGCGGGGGCCCCCAGTGCGG
CTTTTCACCGAGGAGGAGCTGGCCCGCTATGGCGGGGAGGAGGAAGATCAGCCCATCTACTTTGGCAGTGAAGGGA
GTGGTGTTTGATGTCACCTCCGGAAGGAGTTTTATGGACGAGGAGCCCCCTACAATGCCTTGACGGGGGAAGGAC
TCCACTAGAGGGGTAGCCAAGATGTCCTTGATCCTGCAGACCTCACCCATGACACTACGGGTCTCACGGCCAAG
GAACTGGAGGCCCTGGATGAGGTCTTCACCAAAGTGTAAGCCAAATACCCCATCGTCGGCTACACTGCCCGG
AGAATTCTCAATGAGGATGGCAGCCCTAACCTGGACTTCAAGCCTGAAGACCAGCCCCATTTTGACATCAAGGAT
GAGTTC**TGAT**GTTCCTCCCTGCAGGAGCAGGTTCTTGGGAGCGTGAGGCAGGAAGACACTAGGTGCTGAATCTCCT
GCAAACTGGCTGCCTGGAGGCCCTGAGCCACCCAGATCTGAATAAAACAGATGCTTACCCTGGAAGAGCAAATG
CCTCCTGTTGTCTTTGGTCAGGGGTTCTGTCTACCTGGGGACCCCTGTCTGCACACCAGGGATCAATAAGAGCCA
AAGTGGGACACCTCCTAGATGTCAGTATCAGCTGGCTGGGCAGTGAATTTTGAGCGACCTTTACTTTATACTTT
TCTGTGCTTGACAGATTTTCAGCCATGACCATGTTCACTTTATAATCAAAACAAAAATAAAGGTCCCATTTTAC
AAAAGGAAA

2394/2825
FIGURE 2115

MVGPAPRRRLRPLAALALVLALAPGLPTARAGQTPRPAERGPPVRLFT EEELARYGGEEEDQPIYLAVKGVVFDV
TSGKEFYGRGAPYNALTGKDSTRGVAKMSLDPADLTHDTTGLTAKELEALDEVFTKVYKAKYPIVGYTARRILNE
DGSPNLDFKPEDQPHFDIKDEF

2395/2825
FIGURE 2116

TAAATGGCAGCCAATGGAGGGTGGTGTTCGCGGGGGCTGGGATTAGGGCCGGGGCGAATGGCTGGCAATCTTACT
GGGATTACAGAACAAAGAGCCTCCCCGCGCTCCCGCTCTCCGCTCCTCTCCCCGCGCCGCCCGCCCTCCGCCGC
AGCCCGCGCCGGGGGTGGGGGCCGCCGAGCGCCAGCCCCCGGCCGGCCGATTCCCCCCCCGCGCCCCCTCCCCG
CGCTCCCTCCCCGCCCTCGCCGCGCCGCCGTCTCGCTCCCTCTGCCTCTCCTTCCCCATTCTCCCGGATTA
ATTAAGGAGGCAGCGGCAGGAGGCTGAGTCTTGCCGCGGGGCCGGGGCGCCGCTGGCAGGAGCGCTTGG
GGATCCTCCAAGGCGACCATGGCCTTGCTGGGTAAGCGCTGTGACGTCCCCACCAACGGCTGCGGACCCGACCGC
TGGAATCCGCGTTCACCCGCAAGACGAGATCATCACCAGCCTCGTGTCTGCCTTAGACTCCATGTGCTCAGCG
CTGTCCAAACTGAACGCCGAGGTGGCCTGTGTGCGCGTGCACGATGAGAGCGCCTTTGTGGTGGGCACAGAGAAG
GGGAGAATGTTCTGAATGCCCGGAAGGAGCTACAGTCAGACTTCCTCAGGTTCTGCCGAGGGCCCCCGTGGAAG
GATCCGGAGGCAGAGCACCCCAAGAAGGTGCAGCGGGCGAGGGTGGAGGCCGTAGCCTCCCTCGGTCTCCCTG
GAACATGGCTCAGATGTGTACCTTCTGCGGAAGATGGTAGAGGAGGTGTTTGATGTTCTTTATAGCGAGGCCCTG
GGAAGGGCCAGTGTGGTGGCACTGCCCTATGAGAGGCTGCTCAGGGAGCCAGGGCTGCTGGCCGTGCAGGGGCTG
CCCGAAGGCCGTGGCCTTCCGAAGGCCAGCCGAGTATGACCCCAAGGCCCTCATGGCCATCCTGGAACACAGCCAC
CGCATCCGCTTCAAGCTCAAGAGGCCACTTGAGGATGGCGGGCGGGACTCGAAGGCCCTGGTGGAGCTGAACGGT
GTCTCCCTGATTCCCAAGGGGTACGGGACTGTGGCTGCATGGCCAGGCCCCCAAGGTGCCACCCAGGACCTG
CCCCAACC GCCACCTCCTCCTCCATGGCCAGCTTCTGTACAGCACGGCGCTCCCCAACCACGCCATCCGAGAG
CTCAAGCAGGAAGCACCTTCTGCCCCCTTGCCCCAGCGACCTGGGCCTGAGTCGGCCCATGCCAGAGCCCAAG
GCCACCGGTGCCCAAGACTTCTCCGACTGTTGTGGACAGAAGCCCACTGGGCCTGGTGGGCCTCTCATCCAGAAC
GTCCATGCCTCCAAGCGCATTCTCTTCTCCATCGTCCATGACAAGTCAGAGAAGTGGGACGCCTTCATAAAGGAA
ACCGAGGACATCAACACGCTCCGGGAGTGTGTGCAGATCCTGTTTAAACAGCAGATATGCGGAAGCCCTGGGCCTG
GACCACATGGTCCCCGTGCCCTACCGGAAGATTGCCTGTGACCCGGAGGCTGTGGAGATCGTGGGCATCCCGGAC
AAGATCCCCTTCAAGCGCCCTGCACCTTATGGAGTCCCCAAGCTGAAGCGGATCCTGGAGGAGCGCCATAGTATC
CACTTCATCATTAAGAGGATGTTTGATGAGCGAATTTTACAGGGAACAAGTTTACCAAGACACCACGAAGCTG
GAGCCAGCCAGCCCGCCAGAGGACACCTCTGCAGAGGTCTCTAGGGCCACCGTCTTGACCTTGCTGGGAATGCT
CGGTGAGACAAGGGCAGCATGTCTGAAGACTGTGGGCCAGGAACCTCCGGGGAGCTGGGCGGGCTGAGGCCGATC
AAAATTGAGCCAGAGGATCTGGACATCATTAGGTACCGTCCCAGACCCCTCGCCAACCTCTGAGGAAATGACA
GACTCGATGCCTGGGCACCTGCCATCGGAGGATTCTGGTTATGGGATGGAGATGCTGACAGACAAAGGTCTGAGT
GAGGACGCGCGGCCGGAGGAGAGGCCCGTGGAGGACAGCCACGGTGACGTGATCCGGCCCCCTGCGGAAGCAGGTG
GAGCTGCTCTTCAACACACGATACGCCAAGGCCATTGGCATCTCGGAGCCCGTCAAGGTGCCGTACTCCAAGTTT
CTGATGCACCCGGAGGAGCTGTTTGTGGTGGGACTGCCTGAAGGCATCTCCCTCCGCAGGCCCAACTGCTTCGGG
ATCGCCAAGCTCCGGAAGATTCTGGAGGCCAGCAACAGCATCCAGTTTGTATCAAGAGGCCCGAGCTGCTCACT
GAGGGAGTCAAAGAGCCCATCATGGATAGTCAAGGAACTGCCTCCTCACTTGGCTTCTCTCCCCCTGCCCTGCC
CCAGAGAGGGATTCCGGGGACCCTCTGGTGGACGAGAGCCTGAAGAGACAGGGCTTTCAAGAAAATTATGACGCG
AGGCTCTCACGGATCGACATCGCCAACACACTAAGGGAGCAGGTCCAGGACCTTTTCAATAAGAAATACGGGGAA
GCCTTGGGCATCAAGTACCCGGTCCAGGTCCCCTACAAGCGGATCAAGAGTAACCCCGGCTCCGTGATCATCGAG
GGGCTGCCCCCAGGAATCCCGTTCCGAAAGCCCTGTACCTTCGGCTCCCAGAACCTGGAGAGGATTCTTGCTGTG
GCTGACAAGATCAAGTTCACAGTCACCAGGCCTTTCCAAGGACTCATCCCAAAGCCTGATGAAGATGACGCCAAC
AGACTCGGGGAGAAGGTGATCCTGCGGGAGCAGGTGAAGGAACTCTTCAACGAGAAATACGGTGAGGCCCTGGGC
CTGAACCGGCCGGTGTGTTCCCTTATAAACTAATCCGGGACAGCCCAGACGCCGTGGAGGTACGGGTCTGCCT
GATGACATCCCCTTCCGGAACCCCAACACGTACGACATCCACCGGCTGGAGAAGATCCTGAAGGCCCGAGAGCAT
GTCCGCATGGTCATCATTAACCAGCTCCAACCCTTTGCAGAAAATCTGCAATGATGCCAAGGTGCCAGCCAAAGAC
AGCAGCATTCCCAAGCGCAAGAGAAAGCGGGTCTCGGAAGGAAATTCCGTCTCCTCTTCTCCTCGTCTTCTCT
TCCTCGTCTCTAACC CGGATT CAGTGGCATCGGCCAACCAGATCTCACTCGTGCAATGGCCAATGTACATGGTG
GACTATGCCGGCCTGAACGTGCAGCTCCCGGGACCTCTTAATTACTAGACCTCAGTACTGAATCAGGACCTCACT
CAGAAAGACTAAAGGAAATGTAATTTATGTACAAAATGTATATTCCGATATGTATCGATGCCTTTTAGTTTTTCC
AATGATTTTTTACACTATATTCTGCCACCAAGGCCTTTTTTAATAAGTAAAAAAAAAAAAAAAAAAAAA

2396/2825
FIGURE 2117

MALLGKRCDVPTNGCGPDRWNSAFTRKDEIITSLSVSAIDSMCSALS SKLNAEVACVAVHDESAFVVGTEKGRMFLN
ARKELQSDFLRF CRGPPWKDPEAEHPKKVQRGEGGGRSLPRSSLEHGSDVYLLRKMVEEVFDVLYSEALGRASVV
PLPYERLLREPGLLAVQGLPEGLAFRRPAEYDPKALMAILEHSHRIRFKLKRPLEDGGRDSKALVELNGVSLIPK
GSRDCGLHGQAPKVPPQDLPTATSSSMASFLYSTALPNHAIRELKQEAPSCPLAPSDLGLSRPMPEPKATGAQD
FSDCCGQKPTGPGGPLIQNVHASKRILFSIVHDKSEKWDAFIKETEDINTLRECVQILFNSRYAEALGLDHMPV
PYRKIACDPEAVEIVGIPDKIPFKRPCTYGVPKLKRILEERHSIHFI IKRMFDERIFTGNKFTKDTTKLEPASPP
EDTSAEVS RATVLDLAGNARSDKGSMS EDCGPGTSGELGGLRPIKIEPEDLDIIQVTVDPSPSTSEEMTDSMPGH
LPSEDSGYGMEMLTDKGLSEDARPEERPVEDSHGDVIRPLRKQVELLFNTRYAKAIGISEPVKVPYSKFLMHPEE
LFVVGLPEGISLRRPNCFGIAKLRKILEASNSIQFVIKRPELLTEGVKEPIMDSQGTASSLGFSPPALPPERDSG
DPLVDESLKRQGFQENYDARLSRIDIAN TLREQVQDLFNKKYGEALGIKYPVQVPYKRIKSNPGSVIIEGLPPGI
PFRKPCTFGSQNLERILAVADKIKFTVTRPFQGLIPKPEDDANRLGEKVILREQVKELFNEKYGEALGLNRPVL
VPYKLIRDSPDAVEVTGLPDDIPFRNPNTYDIHRLEKILKAREHVRMVIINQLQPF AEICNDAKVP AKDSSIPKR
KRKR VSEGNSVSSSSSSSSSSSSSNPDSVASANQISLVQWPMYMDYAGLNVQLPGPLNY

2397/2825
FIGURE 2118A

ACCGCCTTCGCCGCGGACCTTCAGCTGCCGCGGTTCGCTCCGAGCGGCGGGCCGAGAGGTTCAAGCGATTCTCCT
GCTTCAGCCTCCGGAGTAGCTGGGATTACAGGCACGTGCCAACACACCCAGCCACCAAAATGCCAGAAGAGATGG
ACAAGCCACTGATCAGCCTCCACCTGGTGGACAGCGATAGTAGCCTTGCCAAGGTCCCCGATGAGGCCCCCAAAG
TGGGCATCCTGGGTAGCGGGGACTTTGCCCGCTCCCTTGCCACACGCCTGGTGGGCTCTGGCTTCAAAGTGGTGG
TGGGGAGCCGCAACCCCCAAACGCACAGCCAGGCTGTATCCCTCAGCGGCCCAAGTGACTTTCCAAGAGGAGGCAG
TGAGCTCCCCGGAGGTTCATCTTTGTGGCTGTGTTCCGGGAGCACTACTCTTCACTGTGCAGTCTCAGTGACCAGC
TGGCGGGCAAGATCCTGGTGGATGTGAGCAACCTACAGAGCAAGAGCACCTTCAGCATCGTGAGTCCAATGCTG
AGTACCTGGCCTCCCTCTTCCCCACTTGCACAGTGGTCAAGGCCTTCAATGTCATCTCTGCCTGGACCCTGCAGG
CTGGCCCAAGGGATGGTAACAGGCAGGTGCCCATCTGCGGTGACCAGCCAGAAGCCAAGCGTGCTGTCTCGGAGA
TGGCGCTCGCCATGGGCTTCATGCCCGTGGACATGGGATCCCTGGCGTCAGCCTGGGAGGTGGAGGCCATGCCCC
TGCGCCTCCTCCCGGCTTGAAAGGTGCCACCTGCTGGCCCTGGGGCTCTTCGTCTGCTTCTATGCCTACAACCT
TCGTCCGGGACGTTCTGCAGCCCTATGTGCAGGAAAGCCAGAACAAGTTCTTCAAGCTGCCCGTGTCCGTGGTCA
ACACCACACTGCCGTGCGTGGCCTACGTGCTGCTGTCACTCGTGTACTTGCCCGCGTGCTGGCGGCTGCCCTGC
AGCTGCGGCGCGGCACCAAGTACCAGCGCTTCCCCGACTGGCTGGACCACTGGCTACAGCACCGCAAGCAGATCG
GGCTGCTCAGCTTCTTCTGCGCGCCCTGCACGCCCTCTACAGCTTCTGCTTGCCGCTGCGCCGCGCCACCGCT
ACGACCTGGTCAACCTGGCAGTCAAGCAGGTCTTGCCCAACAAGAGCCACCTCTGGGTGGAGGAGGAGGTCTGGC
GGATGGAGATCTACCTCTCCCTGGGAGTGCTGGCCCTCGGCACGTTGTCCCTGCTGGCCGTGACCTCACTGCCGT
CCATTGCAAACCTCGCTCAACTGGAGGGAGTTCAGCTTCGTTCACTCCTCACTGGGCTTTGTGGCCCTCGTGCTGA
GCACACTGCACACGCTCACCTACGGCTGGACCCGCGCCTTCGAGGAGAGCCGCTACAAGTTCTACCTGCCTCCCA
CCTTCACGCTCACGCTGCTGGTGCCCTGCGTCGTCATCCTGGCCAAAGCCCTGTTTCTCCTGCCCTGCATCAGCC
GCAGACTCGCCAGGATCCGGAGAGGCTGGGAGAGGGAGAGCACCATCAAGTTCACGCTGCCACAGACCAGCCCC
TGGCCGAGAAGACGAGCCACGTATGAGGTGCTGCCCTGGGCTCTGGACCCCGGGCACACGAGGGACGGTGCCT
GAGCCCGTTAGGTTTTCTTTTCTTGGTGGTGCAAAGTGGTATAACTGTGTGCAAATAGGAGGTTTGAGGTCCAAA
TTCTTGGGACTCAAATGATATGCAGTACTATTTCAGAATGATATACACATATGTGTATATGTATTTACATATATT
CCACATATATAACAGGATTTGCAATTATACATAGCTAGCTAAAAAGTTGGGTCTCTGAGATTTCAACTTGTAGAT
TTAAAAACAAGTGCCGTACGTTAAGAGAAGAGCAGATCATGCTATTGTGACATTTGCAGAGATATACACACACTT
TTTGTACAGAAGAGGCTTGTGCTGTGGTGGGTTGATTTATCCCTGCCACCCCATCCCCACAACCTTCCCTTTTG
CTACTTCCCCAAGGCTCTTGCAGAGCTAGGGCTCTGAAGGGGAGGGAAGGCAACGGCTCTGCCAGAGCCATCCC
TGGAGCATGTGAGCAGCGGCTGGTCTCTTCCCTCCACCTGGGGCAGCAGCAGGAGGCTGGGGGGGAGGAAAATC
AGGCAGTCGGCTGGAGTCTGTGCTGGTCCCTTGCCCGGTGGTGGGAGGATGGAGGGATTGGGCTGAAGCTGCT
CCACCTCATCTTGTGAGTGGGGGAGACATTTCCCTGAAAGTCAGAAGTCACCATAGAGCCTGCAAATGGATC
CTCCTGTGAGAGTGACGTCACCTCCTTTCCAGAGCCATTAGTGAGCCTGGCTTGGGAACAAGTGTAATTCCTTC
CCTCCTTTAACCTGGCGATGAGCGTCCTTTAAACCACTGTGCCCTTCTACCCCTTTCCATCTTCAGTTTGAACGAC
TCCCAGGAAGGCCTAGAGCAGACCCTTTAGAAATCAGCCCAAGGGGGAGAGCAAGAGAAAACACTCTAGGGAGTA
AAGCTCCCCGGGCGTCAGAGTTGAGCCCTGCCTGGGCTGAAGGACTGTCTTACGAAGTCAGTCTCTGAGGAAAAA
TATTGGGGACTCCAAATGTCTCTGGCAGAGGACCCAGAAAACCACACTGGCTCCAACTTCTCCTCATGGGGCA
TTACACTTCAAAACAGTGGGGAGCAACTTTTCCACCAAAGCTACAAACCTAAAATGCTGCTGCCCCAAAGCACAA
GAGGGAAAGAGCACCGCCGGGGCCACAGGACGTCTGTCTCCAGTCACAGGCCATCCTTGCTGCTCCCTACTGACT
CTAGCTTACTTCCCCTGTGAAGAAACAGGTGTTCTCGGCTGAGCCCCCAACCCTCTGCAGAACAGGTTGATCTG
CCACAGAAAAAGCATCTTTGAAGACAAAGAGGGTGAGGTCTTCATGAGTCTCCTGGGCCCAAAGCCATCTTCTGA
TGGAAGGAAGAGAGTAGGGCCAGTGAAGGCTGCCCAGAGAGAATGTCACAGATGAGGCTGCCCTGCCCTTCCC
CGCCAGGGAGGTTTCATGAGCTCATGTCTATGCAGCACATAAGGGTTCTTCAGTGAAAAGCAGGAGAAGAGCCCCA
CTGCAAGGATAGCTCATTAGGCACATGACCGATGCAGGGAAGGCCATGCCGGGGAAGCTCTTCTGTCAGGTATTT
TCCATCTGCTGTGCCAAGGCTGAGCGGCAGAAACTTGCTCATAAATTGGCACTGATGGAGCATCAGCTGTGGCC
CACAGAGAGCCTTGCTGAGAAGGGGGCAGGTAAAGCAGAGATTTTAGCATTGCCTTGGCATAACAAGGGCCCCATC
GATTCCCTACTAATGAGAGGCAGGGAGAGCATGGGCAATGGAGACCCACCAATGATCCCCAACCCCGGTGGGTAC
TGGCTGCCTGCCCTGGGCCAGGGAATGGCTCCTTATACCAAAGATGCTGGCACATAGCAGAACCCAGTGCACGTC
CTCCCCCTCCACCCACCTCTGGCTGAAGGTGCTCAAGAGGGAAGCAATTATAAGGTGGGTGGCAGGAGGGAACA

2398/2825
FIGURE 2118B

GGTGCCACCTGCTGGACAATCACACGAAAGGCAGGCGGGCTGTGTACTGGGCCCTGACTGTGCGTCCACTGCTGT
CTTCCCTACCTCACCAGGCTACTGGCAGCAGCATCCCGAGAGCACATCATCTCCACAGCCTGGTAAATTCCATGT
GCCTCTGGGTACAAAAGTGCCTCAACGACATGCTCTGGAAATCCCAAATGCCACAGTCTGAGGTTGATATCTAAA
ATCTATGCCTTCAAAAGAGTCTCTGTTTTTTTTTTTAAACCTGGTAGACGGTATAAAAGCAGTGCAAATAAACAC
CTAACCTTCTGC

2399/2825
FIGURE 2119

MPEEMDKPLISLHLVDSDSLAKVPDEAPKVGILGSGDFARSLATRLVGSGFKVVVGSRNPKRTARLYPSAAQVT
FQEEAVSSPEVIFVAVFREHYSSLCSLSDQLAGKILVDVSNPTEQEHLOHRESNAEYLASLFPTCTVVKAFNVIS
AWTLQAGPRDGNRQVPICGDQPEAKRAVSEMALAMGFMPVDMGSLASAWVEEAMPLRLLPAAWKVPTLLALGLFVC
FYAYNFVRDVLQPYVQESQNKFFKLPVSVVNTTLPCVAYVLLSLVYLPGVLAALQLRRGTKYQRFDPDWLDHWLQ
HRKQIGLLSFFCAALHALYSFCLPLRRAHRYDLVNLAVKQVLANKSHLWVEEEVWRMEIYLSLGVLAALGTLSELLA
VTSLPSIANSLNWREFSFVQSSLGFVALVLSTLHTLTYGWTRAFEEESRYKFYLPPTFTLTLLVPCVVILAKALFL
LPCISRRLARIRRGWERESTIKFTLPTDHALAEKTSHV

2400/2825
FIGURE 2120

GACAGCAAATACTTCCGTAAAACAGACCATCAAGCTTTCCACTTAGAGCCCAGTGTGGCCCCAATACCTTTTCCTT
GTCGCTCCTGCGTGCCAGTCCGCCTCCGCGTGGTCCGGCCGCTGCGCCACGCCCCCGCTCGCCCCGCCCCGCGGAT
TTGCTCCCTCAAAGCTGAAGTGAGGCCGGGCTGAGGCTCTTACAGTGGTCCCTGCTGGCCCTTGGTGACGGGTCTG
CCTCAGTTCCGACCCGGACCCGTACGCTGCTGCGCTGACGTGGCTCCCGGAAGTAGGGCTGGCGTAGGGCCGCCA
TGTTGCAGCAGGATAGTAATGATGACACTGAAGATGTTTCACTGTTTGATGCGGAAGAGGAGACGACTAATAGAC
CAAGAAAAGCCAAAATCAGACATCCAGTAGCATCGTTTTTCCACTTATTCTTTTCGAGTCAGTGCAATCATCGTCT
ATCTTCTCTGTGAGTTGCTCAGCAGCAGCTTTATTACCTGTATGGTGACAATTATCTTGTTGTTGTGCTGTGACT
TTTGGGCAGTGAAGAATGTCACAGGTAGACTAATGGTTGGCCTACGTTGGTGGAATCACATTGATGAAGATGGAA
AGAGCCATTGGGTGTTTGAATCTAGAAAGGAGTCTCTCAAGAGAATAAACTGTGTCAGAGGCTGAATCAAGAA
TCTTTTGGTTGGGACTTATTGCCTGTCCAGTACTGTGGGTGATATTTGCCTTTAGTGCCTCTTCTCCTTCAGAG
TAAAGTGGTTGGCGGTGGTTATCATGGGTGTGGTGCTACAAGGTGCCAACCTGTATGGTTACATCAGGTGTAAGG
TGCGCAAGAAAAGCATTTAACCAGCATGGCTACTTCATATTTTGGAAAGCAGTTTTTAAAGACAAAACACTGGAGA
TGATCAGACTTCCTGAATAGAGAAAGCTTATGTGCTTTGTTACATTGGGGAACAACCTGAAGAGATTCTTGACTCA
ACCTTTTAGAGCTTAGTCCATGTTGCAACGAGGAGTGTGGCTTTGTTTTTCCACTTAAAACTTTATTTATAAA
AAGGAAAAGTAGTTTTTCATATTAAGTTTTTATTTTCCCTTTCCAGCAGTTGGGGCTAGAAAGTATGTGTTGGCACTA
GAAACATTGTCAAGATTTGTTCTGTGGTGTAGGTATGCACATTCCATAGGTATGCACACGGCCATGTAATATCAG
TATATCCCAAGTTAATGAAAGTGTTTACATAGGTAAATGGAGACCTTTGCATTTTGATCCATAGAACATAGG
AGGATGTTCTTAGTCTGTCTCAAAGCTCTATATGTTTACATATTATTTCTGTAGGATTGTTTTCAGGAGAAAAGTT
TTGCTTCTATGGGTAAGGAGTGAGGCACCTTTGGGCTTATGTATAAGTTAGAAATAATTGTTAGTTTTTAATATGC
ACTTCGTGGGGAAATTTCTTAGACGTATGCAAGCAAGTGAAAACAATTAGGGCCAGTGGTATTAACCTACTTTATA
AAATTTTATTTTTGTTTGTAAGAAGTCATCTACTTAAGGCCAGTTAATATAAGTGGAATCATCATAGTTTAAGG
AATACCCAGAGATTGCTGCTGTTCTATTTATTTTACAGAAAAGGTAGCTAGATTGAAAGCTCTTCAGTGGACCTT
GAGCTAATAGATCTTTTACCCTAAAAGAGCATTATTCTCATGTGCATAATGAGAATAATAATTTACATACTTGGC
ATAATAAATGCCTAAAAGACATTTTTATTTTCTGAATCTATTTTTTTCTTGCTATAATGGGGATATTGTAAATTAT
GCATTTGTATTAATGGTATTTCTTAAAGCAATCTATGTAACGTAAATTAAACCAATCTACAACTATTGTAGGC
ATCTGTAAATTCTGTTGTAGGTATTATAAACTTTGTTGAAGTCTTAATCAGCAGATTATGTTGTGAATATATTTG
TACATTGTTAAAATAGTTTTTAAGATTATTTGTTTAATTGAATAAGTGTCTTATTGGAGTGATAGCTTTGAAGGT
GCAAACTTTATATTTGTATAAAATTCTACTATTTACAAGGCAAA

2401/2825

FIGURE 2121

MLQQDSNDDTEDVSLFDAEEETTNRPRKAKIRHPVASFFHLFFRVSAIIVYLLCELLSSSFITCMVTIILLLLSCD
FWAVKNVTGRLMVGLRWNNHIDEDGKSHWVFESRKESQENKTVSEAESRIFWLGLIACPVLWVIFAFSALFSFR
VKWLAVVIMGVVLQGANLYGYIRCKVRKCSI

2402/2825
FIGURE 2122

ACGGTGGAGCGGTGGAGGGCGTCACTGGGTTTCGGCGTCTGGCAAGCGGTTTCAGCTGTCTGCTCCCTAGCAGCCG
GCCTTCGGGTCGGGCGTCTCCGCGGCTACTGCCGCTTCAGTTCTCCCGGTGTGGCCACGAGTCGGGTTGCACTGC
TGTGATCCATCCTCATCTCCTAAAGATGCATCCTGACTTATCTCCACACTTGCACACTGAAGAATGCAACGTCTT
GATTAAC TTGCTTAAGGAATGTCACAAAAATCACAACTTCTGAAATTTTTTGGTTATTGTAATGATGTTGATCG
GGAGTTGAGAAAATGCCTGAAGAATGAGTACGTAGAAAACAGGACCAAGAGCAGGGAGCATGGCATTGCAATGCG
AAAGAACTTTTTAATCCTCCAGAGGAATCCGAAAAATAAATTGTATTTTCACTCGATGCCTTGGCTGAGAGAAG
ACCTAAAGACTCTGGGTTGATACCTGAAAGAATCCTGTCTTATTTGGTCTCCATAATCCTTTGAATGGAAAGTGA
CCTGTGAGAGATTGAACCATGGAGAAATATGAAAACCCTGGATTCTGAGTATTTGTTGGGCAGGGCGTTTAGTAC
TGTCTCCCTTTACCAGCAAACCTGACTTCACCATGTTTATTCCTTTGCCTACAACCAGTTAATACTGAGTAA
CTTATCTCCTTCAATAAAATAATTTAAATAAAAAAAAAAAAAA

2403/2825
FIGURE 2123

MHPDLSPHLHTEECNVLINLLKECHKHNHILKFFGYCNDVDRELKCLKNEYVENRTKSREHGIAMRKKLFNPPE
ESEK

2404/2825
FIGURE 2124

TAGCCCCGCCTCTCGCCTCGCCGCCTCGCCGTCCCGCCGCCTTGCCGCCCTGCCACCCTGCCGCCCTGCCGCCCT
GCCGCCCTGCCGCCCTGCCGCCCTGCCGCCCTGCCGCCGTGGTCGCTGCCCGTGGTGCTCCGTCGCCCCCGCCA
CCTCACGTCTCTCCCGTGCCTCGGGAGCGTCTCGGCTACAAC**ATG**TTGGGCATGATCAAGAACTCGCTGTTTCGGAA
GCGTAGAGACGTGGCCTTGGCAGGTCTTAAGCAAAGGGGACAAGGAAGAAGTTGCCTATGAAGAAAGGCCTGTG
AAGGCGGCAAATTTGCCACAGTAGAAGTGACAGATAAGCCTGTGGATGAGGCTCTACGGGAAGCAATGCCCAAGG
TCGCAAAGTATGCGGGGGGCACCAATGACAAGGGAATTGGGATGGGGATGACAGTCCCTATTTCTTTGCTGTGT
TCCCCAATGAAGATGGCTCTCTGCAGAAGAAATTAAAAGTCTGGTTCCGGATTCCAAACCAATTTCAAAGCGACC
CACCAGCTCCCAGTGACAAAAGCGTTAAGATTGAGGAACGGGAAGGCATCACTGTCTATTCCATGCAGTTTGGTG
GTTATGCCAAGGAAGCAGACTACGTAGCACAAAGCCACCCGTCTGCGTGCTGCCCTGGAGGGGCACAGCCACCTACC
GGGGGGACATCTACTTCTGCACGGGTTATGACCCTCCCATGAAGCCCTACGGACGGCGCAATGAGATCTGGCTGT
TGAAGACA**TGA**GTGACCCACTGAACCAAGAAGTTACTGGAAGTGTGCCTCTGTGTCTCCTTCCTCGGGGGTAAGG
AGGGGACAGTGCTTCCCAAGTTCCAGCTGCAAGTCCAAGTTAACCAACTTTCCTTCAAAGTCAGTTACTGCCAAT
TTTCTGAAAAAAGCATGTTCCATATACTAAGTCTCTTTTCTCACGGTAGGAAATAATACAGCCAAGATATGCAGC
ATCCTTCTCATTGATGTAGAAAATTCTGCGATAGACCAGAAAAATCCTGGCAGCTTTTCTCCAGGCATCTGGGTC
ACTAAAAACTGATTTTCTAAAATTATTGGATTGTATTTTGTATTATAAGGGGGAAAATGTGATTTGTGCCTGATC
TTTCATCTGTGATTCTTATAAGAGCTTTGTCTTCAGAAAACTAAAAATAAAAGGCATTGACTTAAACAGCTGA

2405/2825
FIGURE 2125

MLGMIKNSLFGSVETWPWQVLSKGDKEEVAYEERACEGGKFATVEVTDKPVDEALREAMPKVAKYAGGTNDKGIG
MGMTVPISFAVFPNEDGSLQKKLVWFRIPNQFQSDPPAPSDKSVKIEEREGITVYSMQFGGYAKEADYVAQATR
LRAALEGTATYRGDIYFCTGYDPPMKPYGRRNEIWLLKT

2406/2825
FIGURE 2126

AATAACCTGGAGCCGGCGGCGTAGGTTGGCTCTTTAGGGCTTCACCCCGAAGCTCCACCTTCGCTCCCGTCTTTC
TGGAAACACCGCTTTGATCTCGGCGGTGCGGGACAGGTACCTCCCGGCTGCTGCGGGTGCCCTGGATCCAGTCGG
CTGCACCAGGCGAGCGAGACCCTTCCCTGGTGGAGGCTCAGAGTTCCGGCAGGGTGTCATCCGGCCTGTGTGTGGC
GCGAGGCGAGGAAGCCGGTACCCGGGTCTCGCCCCAGCGCTGACGTTTTCTCTCCCTTTCTTCTCTCTTCGCG
GTTGCGGCGTGCAGACGCTAGTGTGAGCCCCC**ATGC**GAGATACGACCCCGAGCGGCCCCCAAGGGGCGGGCGCT
GTGCAATTCATGATGACCAATAAACTGGACACGGCAATGTGGCTTTCTCGTTTGTTACAGTTTACTGCTCTGCT
CTGTTTGTCTGCCTCTTCTTGGGTTGCATGAAGCAGCAAGCTTTTACCAACGTGCTTTGCTGGCAATGCTCTT
ACCAGTGCTCTGAGGCTGCATCAAAGATTACCACACTTCCAGTTAAGCAGAGCATTCTGCCCCAGGCTTTGTTA
GAGGACAGCTGCCACTACCTGTTGTATTCACTCATCTTTGTAAATTCCTATCCAGTTACAATGAGTATCTTCCCA
GTCTTGTATTCTCTTTGCTTCATGCTGCCACATATACGAAAAAGGTCCTTGACGCAAGGGGCTCAAATAGTTTA
CCTCTGCTGAGATCTGTCTTGGACAAATTAAGTGCTAATCAACAAAATATTCTGAAATTCATTGCTTGCAATGAA
ATATTCCTGATGCCTGCGACAGTTTTTATGCTTTTTAGTGGTCAAGGAAGTTTGCTCCAACCTTTTATATACTAT
AGATTTCTTACCCTTCGATATTTCGTCTCGAAGAAACCATATTGTCGGACCTTATTTAATGAACTGAGGATTGTT
GTTGAACACATAATAATGAAACCTGCTTGCCCACTGTTTGTGAGAAGACTTTGTCTCCAGAGCATTGCCTTTATA
AGCAGATTGGCACCAACAGTTCCA**TAGT**TTTAACATCTAGTTAAGCTACAAATATAGTATAAGCATTATTAGCAGC
TGGTACTTCTGCTAGGGGTTGTAAATTCAGGTGTTACACTGACCTCAATCCAATTTACATAATTTACATAAATG
CATCTCGGTGGAAAAATAATCATTTTTCTTGGCATGTTAAATCAAGCTTAAAAAGTTTGTAGAAAAATTTTACTGTG
CTGTGTTGCTAATGGTTAAAGAAGTCTGTATCTAGTGATAAAATATACCAGTTTTTTTTAAAAAGATGCTGTTGTGC
CTATATCATGAAGTACATTAATTTCTCATGTAAAAAAAATAGCTCTAAAATTTGTTTCAACCTAATTGGTAACCT
GAGTTTATATCTGGCATGAATTCATTATGGTGATACACATATGTGAATTCAGTACATTTTGAGACAGTATTCTAC
CATTGAGTAATTTTGGTTAATGATTTTAAACACTTCTCAGTGTATTTAATTTCAAATTTGTTTTTTAATTGGTTTT
ATGCTGCTTTGTTAGGACAGATGTGTTTTGAATGTACCATTATAAGAAGAATTCATGTATCTTAACTATGATC
TTCTAAAAATTTTATTTCCGTAAGTACTTCTGTGGCCTTGAGTATTTTTTAAAAGGCTCAACTGTAAGCCTCTTAG
CCAGTTGGATAAATATTTGGGGTCACCTAGCCATTGAAAGCAGAAAGCAGTAGTGACACAGCTTTCCCTTCAAAG
AGCCATTGAGAAACATTTCTCAAACAGGAAATCCTTCTTTTACTAATGTGGACATATAGATTATTCGTATTATAG
TTTGTAGAACTACCTAGTTCAGAATCTTGACTGCCAGTTTTCTTGGTTTCTTAGGCTTGAATTTTCATAGACAAT
TGCAACAGTTTAGATGCCTTTTGAAAGGAATGTAATGAAGATTCAGCATCTGACTATATGTGTGTCTATCCTGAA
ATAATAATGGAGAGTATACTGTAGATTACATGTTTACCCATCAAATCTGACTTAAAAGGTTAAATGGAAGGTTTT
ATAGGTAAGGTAATTGATTGGGAATGGGGTAGGGGAGGAGTTGTGGGGGAATAATGTGCATTTTCACTCTCAACG
CATAGATAAAATTTAGGGGAATTGGATGCATTATTCAACTTTGATTTGGGTTGTAAAATGTGTTAAATCCTGTTCA
TTGAACTCCCATCAACTCTTATGAAATTCATGCTGATCTTCATTACCGTTGCATGATTGGAAATGTTTAAACAT
TGTACAGTTTTAGTATAGAGAAATGTAATGGTTTTTGTGACCAGTTTCTGTCTGCATGTAATTTGGATTTCTCAA
ATACATTCAATTAGTAATTTATCAGTAACATTAGTTTTATTTTTGTTTCATCTCCTTATCTATAAAAAGGGGATATT
CTTAGGATAAAATACATGAAAAATTATACTTGATAGCTTAACTATAATCAGCTATTTTTGTATTTTTGTAAATATT
GTCCACTAAGCTGGAGAAGCAGCCTCATACAGTTGATTTTGTGTATGTGGCTAGTCTTATTGTCACTATGTAAGT
AATCCAATGGTTTTAGAACTAACTTTCTAGAGCAATAAAATGACTATAATGTTAAGT

2407/2825
FIGURE 2127

MADTTPSGPQGAGAVQFMMTNKLDTAMWLSRLFTVYCSALFVLP LLGLHEAASFYQRALLANALTSALRLHQRLP
HFQLSRAFLAQALLED SCHYLLYS LIFVNSYPVTMSIFPVLLFSL LHAATYTKKVLDARGSNSLP LLRSVLDKLS
ANQQNILKFIACNEIFLMPATVFMLFSGQGSLLQPFIYYRFLTLRYSSRRNPYCRTL FNELRIVVEHIIMKPACP
LFVRRCLQSI AFISRLAPTVP

2408/2825
FIGURE 2128

ATAATAATTAGGCCAAGCGTTGAATAGTACGGGGGGGGGGGGGGGGGGCGAGCCCCGGCGGCTCTGGCCGCGGCCGC
ACTCAGCGCCACGCGTCGAAAGCGCAGGCCCCGAGGACCCGCCGCACTGACAGTATGAGCCGCACAGCCTACACG
GTGGGAGCCCTGCTTCTCCTCTTGGGGACCCTGCTGCCGGCTGCTGAAGGGAAAAAGAAAGGGTCCCAAGGTGCC
ATCCCCCGCCAGACAAGGCCAGCACAATGACTCAGAGCAGACTCAGTCGCCCCAGCAGCCTGGCTCCAGGAAC
CGGGGGCGGGGCCAAGGGCGGGGCACTGCCATGCCCGGGGAGGAGGTGCTGGAGTCCAGCCAAGAGGCCCTGCAT
GTGACGGAGCGCAAATACCTGAAGCGAGACTGGTGCAAAACCCAGCCGCTTAAGCAGACCATCCACGAGGAAGGC
TGCAACAGTCGCACCATCATCAACCGCTTCTGTTACGGCCAGTGCAACTCTTTCTACATCCCCAGGCACATCCGG
AAGGAGGAAGGTTCCCTTTTCAGTCCTGCTCCTTCTGCAAGCCCAAGAAATTCCTACCATGATGGTCACACTCAAC
TGCCCTGAACTACAGCCACCTACCAAGAAGAAGAGAGTGCACACGTGTGAAGCAGTGTGCTTGATATCCATCGAT
TTGGATTAAGCCAAATCCAGGTGCACCCAGCATGTCTTAGGAATGCAGACCCAGGAAGTCCCAGACCTAAAACAA
CCAGATTCTTACTTGGCTTAAACCTAGAGGCCAGAAGAACCCCCAGCTGCCTCCTGGCAGGAGCCTGCTTGTGCG
TAGTTCGTGTGCATGAGTGTGGATGGGTGCCTGTGGGTGTTTTTAGACACCAGAGAAAACACAGTCTCTGCTAGA
GAGCACTTCCATATTTTGTAAACCTATCTGCTTAAATGGGGATGTACCAGAAACCCACCTCACCCCGGCTCACATC
TAAAGGGGCGGGGCCGCTGGTCTGGTTCTGACTTTGTGTTTTGTGCCCTCCTGGGGACCAGAATCTCCTTTTCGGA
ATGAATGTTTCATGGAAGAGGCTCCTCTGAGGGCAAGAGACCTGTTTTAGTGCTGCATTGACATGGAAAAGTCTCT
TTTAACTGTGCTTGATCCTCCTTTTCTCCTCCTCCTCACAATCCATCTCTTCTTAAGTTGACAGTGACTATGT
CAGTCTAATCTCTTGTGTTTGCCAGGGTTCTTAAATTAATTCCTTAACCATGATGCAATGTTTTTCATTTGGTGA
AGACCTCCAGACTCTGGGAGAGGCTGGTGTGGGCAAGGACAAGCAGGATAGTGGAGTGAGAAAGGGAGGGTGGAG
GGTGAGGCCAAATCAGGTCCAGCAAAAGTCAGTAGGGACATTGCAGAAGCTTGAAAGGCCAATACCAGAACACAG
GCTGATGCTTCTGAGAAAGTCTTTTTCTAGTATTTAACAAAACCCAAAGTGAACAGAGGAGAAATGAGATTGCCAG
AAAGTGATTAACTTTGGCCGTTGCAATCTGCTCAAACCTAACACCAAACCTGAAAACATAAAATACTGACCCTCCT
ATGTTTCGGACCCAAGCAAGTTAGCTAAACCAAACCACTCCTCTGCTTTGTCCCTCAGGTGGAAGAGAGGTAG
TTTAGAACTCTCTGCATAGGGGTGGGAATTAATCAAAAACCTCAGAGGCTGAAATTCCTAATACCTTTCTTTTAT
CGTGGTTATAGTCAGCTCATTTCCTTCCACTATTTCCATAATGCTTCTGAGAGCCACTAAGTTGATTGATAAA
GATCCTGCCTCTGCTGAGTGTACCTGACAGTAGTCTAAGATGAGAGAGTTTAGGGACTACTCTGTTTTAACAAAG
AATATTTTGGGGGTCTTTTTGTTTTAACTATTGTGTCAGGAGATTGGGCTAAAGAGAAGACGACGAGAGTAAGGAAA
TAAAGGGAATTGCCCTCTGGCTAGAGAGTAGTTAGGTGTTAATACCTGGTAGAGATGTAAGGGATATGACCTCCCT
TTCTTTATGTGCTCACTTGAGGATCTGAGGGGACCTGTTAGGAGAGCATAGCATCATGATGTATTAGCTGTTCA
TCTGCTACTGGTTGGATGGACATAACTATTGTAACCTATTAGTATTTACTGGTAGGCACTGTCTCTGATTAAAC
TTGGCCTACTGGCAATGGCTACTTAGGATTGATCTAAGGGCCAAAGTGCAGGGTGGGTGAACCTTTATTGTACTTT
GGATTTGGTTAACCTGTTTTCTCAAGCCTGAGGTTTTATATACAACTCCCTGAATACTCTTTTTGCCTTGTTA
CTTCTCAGCCTCCTAGCCAAGTCCTATGTAATATGGAAAACAAACACTGCAGACTTGAGATTGAGTTGCCGATCA
AGGCTCTGGCATTGAGAGAACCTTGCAACTCGAGAAGCTGTTTTTGATTTGTTTTGTTTTGAACCGGTGCTC
TCCCATCTAACAACTAACAAAGGACCATTTCCAGGCGGGAGATATTTTAAACACCCAAAATGTTGGGTCTGATTT
CAAACCTTTTAACTCACTACTGATGATTCTCAGCTAGGCGAATTTGTCCAAACACATAGTGTGTGTGTTTTGTA
TACACTGTATGACCCACCCCAAATCTTTGTATTGTCCACATTCTCCAACAATAAAGCACAGAGTGGAATTAATT
AAGCACACAAATGCTAAGGCAGAATTTTGGGGTGGGAGAGAGAAAAGGAAAGAGCTGAAAATGTAAACCA
CACCAGGGAGGAAAAATGACATTGAGAACCAACCAAACTGAATTTCTCTTGTGTTTTAACTCTCCCACAAGAA
TGCAATTTTCGTTAATGGAGATGACTTAAGTTGGCAGCAGTAATCTTCTTTTAGGAGCTTGATACCACAGTCTTGCA
CATAAGTGCAAGTTTGCCCCAAGTAAAGAGAATTTCTCAACACTAACTTCACGGGGATAATCACCACGTAACCTA
CCCTTAAAGCATATCACTAGCCAAAGAGGGGAATATCTGTTCTTCTTACTGTGCCTATATTAAGACTAGTACAAA
TGTGGTGTGTCTTCCAACCTTTTATTGAAAATGCCATATCTATACCATATTTTATTTCGAGTCACTGATGATGTAAT
GATATATTTTTTTCATTATTATAGTAGAATATTTTATGGCAAGAGATTTGTGGTCTTGATCATACCTATTAAAAAT
AATGCCAAACACCAAATATGAATTTTATGATGTACACTTTGTGCTTGGCATTAAAGAAAAAACACACACGCC

2409/2825
FIGURE 2129

MSRTAYTVGALLLLLGTLTPAAEGKKKGSQGAIPPPDKAQHNDSEQTQSPQQPGSRNRGRGQGRGTAMPGEEVLE
SSQEALHVTERKYLKRDWCKTQPLKQTIHEEGCNSRTIINRFCYGQCNSFYIPRHIRKEEGSFQSCSFCKPKKFT
TMMVTLNCPELQPPTKKKRVTRVKQCRCISIDLD

2410/2825
FIGURE 2130A

CGGGCCGCACTCAGCGCCACGCGTCGAAAGCGCAGGCCCGAGGACCCGCGCACTGACAGTATGAGCCGCACAG
CCTACACGGTGGGAGCCCTGCTTCTCCTCTTGGGGACCCCTGCTGCCGGCTGCTGAAGGGAAAAAGAAAGGTCCC
AAGGTGCCATCCCCCGCCAGACAAGGCCAGCACAAATGACTCAGAGCAGACTCAGTCGCCCCAGCAGCCTGGCT
CCAGGAACCGGGGGCGGGGCCAAGGGCGGGGCACTGCCATGCCCGGGGAGGAGGTGCTGGAGTCCAGCCAAGAGG
CCCTGCGATGTGACGGAGCGCAAATACCTGAAGCGAGACTGGTGCAAACCCAGCCGCTTAAGCAGACCATCCACG
AGGAAGGCTGCAACAGTCGCACCATCATCAACCGCTTCTGTTACGGCCAGTGCAACTCTTTCTACATCCCCAGGC
ACATCCGGAAGGAGGAAGGTTCCCTTTCAGTCCTGCTCCTTCTGCAAGCCCAAGAAATTCCTACTACCATGATGGTCA
CACTCAACTGCCCTGAACTACAGCCACCTACCAAGAAGAAGAGAGTCAACGTGTGAAGCAGTGTGCTTGCATAT
CCATCGATTTGGATTAAGCCAAATCCAGGTGCACCCAGCATGTCCTAGGAATGCAGCCCCAGGAAGTCCCAGACC
TAAAACAACCAGATTCTTACTTGGCTTAAACCTAGAGGCCAGAAGAACCCCAAGCTGCCTCCTGGCAGGAGCCTG
CTTGTGCGTAGTTTCGTGTGCATGAGTGTGGATGGGTGCCTGTGGGTGTTTTTAGACACCAGAGAAAAACACAGTCT
CTGCTAGAGAGCACTCCCTATTTTGTAAACATATCTGCTTTAATGGGGATGTACCAGAAACCCACCTCACCCCGG
CTCACATCTAAAGGGGCGGGGCCGTGGTCTGGTCTGACTTTGTGTTTTTGTGCCCTCCTGGGGACCAGAATCTC
CTTTCGGAATGAATGTTTCATGGAAGAGGCTCCTCTGAGGGCAAGAGACCTGTTTTAGTGCTGCATTCGACATGGA
AAAGTCCTTTTAACTGTGCTTGCATCCTCCTTTCCTCCTCCTCACAATCCATCTCTTCTTAAGTTGATAGT
GACTATGTCAGTCTAATCTCTTGTGTTGCCAAGGTTCTAAATTAATCACTTAACCATGATGCAAAATGTTTTTCA
TTTTGTGAAGACCCTCCAGACTCTGGGAGAGGCTGGTGTGGGCAAGGACAAGCAGGATAGTGAGTGAGAAAGGG
AGGGTGGAGGTGAGGCCAAATCAGGTCCAGCAAAAGTCAGTAGGGACATTGCAGAAGCTTGAAAGGCCAATACC
AGAACACAGGCTGATGCTTCTGAGAAAGTCTTTTCTAGTATTTAACAAGAACCAAGTGAACAGAGGAGAAATGA
GATTGCCAGAAAGTGATTAACCTTTGGCCGTTGCAATCTGCTCAAACCTAACACCAAAGTGAACACATAAAATACTG
ACCCTCCTATGTTTCGGACCCAAGCAAGTTAGCTAAACCAAACCAACTCCTCTGCTTTGTCCCTCAGGTGGAAAA
GAGAGGTAGTTTGAAGTCTCTGCATAGGGGTGGGAATTAATCAAAAACCKCAGAGGCTGAAATTCCTAATACCT
TTCCCTTTATCGTGGTTATAGTCAGCTCATTTCCATTCCACTATTTCCCATAATGCTTCTGAGAGCCACTAAGTGT
ATTGATAAAGATCCTGCCTCTGCTGAGTGTACCTGACAGTAAGTCTAAAGATGARAGAGTTTAGGGACTACTCTG
TTTTAGCAAGARATATTKTGGGGGTCTTTTTGTTTTAACTATTGTCAGGAGATTGGGCTARAGAGAAGACGACGA
GAGTAAGGAAATAAAGGGRRATTGCCTCTGGCTAGAGAGTAAGTTAGGTGTTAATACCTGGTAGAAATGTAAGGGA
TATGACCTCCCTTTCTTTATGTGCTCACTGAGGATCTGAGGGGACCCGTGTTAGGAGAGCATAGCATCATGATGTA
TTAGCTGTTTCATCTGCTACTGGTTGGATGGACATAACTATTGTAACCTATTAGTATTTACTGGTAGGCACTGTCC
TCTGATTAACTTGGCCTACTGGCAATGGCTACTTAGGATTGATCTAAGGGCCAAAGTGCAGGGTGGGTGAACTT
TATTGTACTTTGGATTGTTGTTAACCTGTTTTCTTCAAGCCTGAGGTTTTATATACAAACTCCCTGAATACTCTTT
TTGCCTTGATCTTCTCAGCCTCCTAGCCAAGTCTATGTAATATGGAAAACAAACACTGCAGACTTGAGATTCA
GTTGCCGATCAAGGCTCTGGCATTCAAGAGAACCCTTGCAACTCGAGAAGCTGTTTTTATTTTCGTTTTTGTGTTGA
TCCAGTGCTCTCCCATCTAACAATAAACAGGAGCCATTTCAAGGCGGGAGATATTTTAAACACCCAAAATGTTG
GGTCTGATTTTCAAACCTTTTAACTCACTACTGATGATTCTCACGCTAGGCGAATTTGTCCAAACACATAGTGTG
TGTGTTTTGTATACACTGTATGACCCACCCCAAATCTTTGTATTGTCCACATTCTCCAACAATAAAGCACAGAG
TGGATTTAATTAAGCACACAAATGCTAAGGCAGAATTTTGAGGGTGGGAGAGAAGAAAAGGGAAAGAAGCTGAAA
ATGTAAACCACACCAGGGAGGAAAAATGACATTCAAGAACAGCAAACTGAATTTCTCTTGTGTTTTAACTC
TGCCACAAGAATGCAATTTTCGTTAATGGAGATGACTTAAGTTGGCAGCAGTAATCTTCTTTTAGGAGCTTGTACC
ACAGTCTTGCACATAAGTGCAGATTTGGCTCAAGTAAAGAGAATTTTCTCAACACTAAGTTCACTGGGATAATCA
GCAGCGTAACTACCTTAAAGCATATCACTAGCCAAAGAGGGGAAATATCTGTTCTTCTTACTGTGCCTATATTAA
GACTAGTACAAATGTGGTGTGCTTCCAACCTTTCATTGAAAAATGCCATATCTATACCATATTTTATTTCGAGTCAC
TGATGATGTAATGATATATTTTTTTCATTATTATAGTAGAATATTTTTATGGCAAGATATTTGTGGTCTTGATCAT
ACCTATTAAAAATAATGCCAAACACCAAATATGAATTTTATGATGTACACTTTGTGCTTGGCATTAAAGAAAAAA
ACACACATCCTGGAAGTCTGTAAGTTGTTTTTGTACTGTAGGTCTTCAAAGTTAAGAGTGTAAAGTGAAGAAATC
TGGAGGAGAGGATAATTTCCACTGTGTGGAATGTGAATAGTTAAATGAAAAGTTATGGTTATTTAATGTAATTAT
TACTTCAAATCCTTTGGTCACTGTGATTTCAAGCATGTTTTCTTTTCTCCTTTATATGACTTTCTCTGAGTTGG
GCAAAGAAGAAGCTGACACACCGTATGTTGTTAGAGTCTTTTATCTGGTCAGGGGAAACAAAATCTTGACCCAGC
TGAACATGTCTTCTGAGTCAGTGCCTGAATCTTTATTTTTTAAATGAATGTTTCCTTAAAGTTAACATTTCTA

2411/2825
FIGURE 2130B

AAGCAATATTAAGAAAGACTTTAAATGTTATTTTGGAAAGACTTACGATGCATGTATACAAACGAATAGCAGATAA
TGATGACTAGTTCACACATAAAGTCCTTTTAAGGAGAAAATCTAAAATGAAAAGTGGATAAACAGAACATTTATA
AGTGATCAGTTAATGCCTAAGAGTGAAAGTAGTTCTATTGACATTCCTCAAGATATTTAATATCAACTGCATTAT
GTATTATGTCTGCTTAAATCATTTAAAAACGGCAAAGAATTATATAGACTATGAGGTACCTTGCTGTGTAGGAGG
ATGAAAGGGGAGTTGATAGTCTCATAAACTAATTTGGCTTCAAGTTTCATGAATCTGTAAC TAGAATTTAATTT
TCACCCCAATAATGTTCTATATAGCCTTTGCTAAAGAGCAACTAATAAATTAAACCTATTCTTTCAAAAAAAAAA

2412/2825

FIGURE 2131

MSRTAYTVGALLLLLGTLLPAAEGKKKGSQGAIPPPDKAQHNDSEQTQSPQQPGSRNRGRGQGGRGTAMPGEEVLE
SSQEALHVTERKYLKRDWCKTQPLKQTIHEEGCNSRTIINRFCYGQCNSFYIPRHIRKEEGSFQSCSFCKPKKFT
TMMVTLNCPQLPPTKKKRVTRVKQCRCISIDL

2413/2825
FIGURE 2132

GCCCCGCTGTTGCGTGCTGCCAGCGGGAAC TGTGTAGGGGTAGATTTTCGCTGCAGTGTTCCCCGAGCCTGTTAGA
CGCAGCGCGCCGGGAGACTGAGAGAGGAAAAGGATAGAGGAAGTGCTGCCCTAGGCTGCATGAGTCGAAGCAAGCG
TGTTTCCTTCCCGCCAGGCAAGTGCCCTTAGAAAACCGGGCCCCGCCCCCTTCCTGGCCATGCAATCCCATCCCCCTC
TCCCGGGGCGGAGGTGAGGACCTCTTTGGTTCTTTGGTTCTGTGTCAGTGAGCCCCCTTCCTTGGCCATGCAAGCTCG
TGAGGAAGAACATCGAGAAGGACAATGCGGGCCAGGTGACCCTGGTCCCCGAGGAGCCTGAGGACATGTGGCACA
CTTACAACCTCGTGTCAGGTGGGCGACAGCCTGCGCGCTCCACCATCCGCAAGGTACAGACAGAGTCCTCCACGG
GCAGCGTGGGCAGCAACCGGTCCGCACTACCTCACTCTCTGCGTGGAGGCCATCGACTTCGACTCTCAAGCCT
GCCAGCTGCGGGTTAAGGGGACCAACATCCAAGAGAATGAGTATGTCAAGATGGGGGCTTACCACACCATCGAGC
TGGAGCCCAACCGCCAGTTACCCCTGGCCAAGAAGCAGTGGGATAGTGTGGTACTGGAGCGCATCGAGCAGGCCT
GTGACCCAGCCTGGAGCGCTGATGTGGCGGCTGTGGTCATGCAGGAAGGCCTCGCCCATATCTGCTTAGTCACTC
CCAGCATGACCCTCACTCGGGCCAAGGTGGAGGTGAACATCCCTAGGAAAAGGAAAGGCAATTGCTCTCAGCATG
ACCGGGCCTTGGAGCGGTTCTATGAACAGGTGGTCCAGGCTATCCAGCGCCACATACACTTTGATGTTGTAAAGT
GCATCCTGGTGGCCAGCCAGGATTTGTGAGGGAGCAGTTCTGCGACTACATGTTTCAACAAGCAGTGAAGACCG
ACAACAAACTGCTCCTGGAAAACCGGTCCAAATTTCTTCAGGTACATGCCTCCTCCGGACACAAGTACTCCCTGA
AAGAGGCCCTTTGTGACCCTACTGTGGCTAGCCGCCTTTTCAGACACTAAAGCTGCTGGGGAAGTCAAAGCCTTGG
ATGACTTCTATAAAATGTTACAGCATGAACCGGATCGAGCTTTCTATGGACTCAAGCAGGTGGAGAAGGCCAATG
AAGCCATGGCAATTGACACATTGCTCATCAGCGATGAGCTCTTCAGGCATCAGGATGTAGCCACACGGAGCCGGT
ATGTGAGGCTGGTGGACAGTGTGAAAGAGAATGCAGGCACCGTTAGGATATTCTCTAGTCTTCACGTTTCTGGGG
AACAGCTCAGCCAGTTGACTGGGGTAGCTGCCATTCTCCGCTTCCCTGTTCCCGAACTTTCTGACCAAGAGGGTG
ATTCCAGTTCTGAAGAGGATTAATGATTGAAACTTAAAAATTGAGACAATCTTGTGTTTCTAAACTGTTACAGTA
CATTTCTCAGCATCCTTGTGACAGAAAGCTGCAAGAAGGGCAGTTTTTTGATTTCATACAGGGATTTCTTATGTCTT
TGGCTACACTAGATATTTTGTGATTGGCAAGACATGTATTTAAACATAAACTAAAAGGAAATAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

2414/2825
FIGURE 2133

MKLVRKNIEKDNAGQVTLVPEEPEDMWHTYNLVQVGDSLRASTIRKVQTESSTGSGSNRVRTTLTLCVEAIDFD
SQACQLRVKGTNIQENEYVKMGAYHTIELEPNRQFTLAKKQWDSVVLERIEQACDPAWSADVAAVVMQEGLAHIC
LVTPSMTLTRAKVEVNIIPRKRKGNC SQHDRALERFYEQVVQAIQRHIFDVVKCILVASPGFVREQFCDYMFQQA
VKTDNKLLLENRSKFLQVHASSGHKYSIKEALCDPTVASRLSDTKAAGEVKALDDFYKMLQHEPDRAFYGLKQVE
KANEAMAIDTLLISDELFRHQDVATRSRYVRLVDSVKENAGTVRIFSSLHVSGEQLSQLTGVAAILRFPVPELSD
QEGDSSSEED